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Fourche Creek Urban Runoff Project
Volume 3. The Data Report

METROPLAN, Little Rock, AR

Prepared for

Environmental Protection Agency, Washington, DC

1983

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FOURCHE CREEK URBAN RUNOFF PROJECT

VOLUME III: The Data Report

Metroplan

Little Rock, Arkansas

1983

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16. Abstract (Limit: 200 words)

The Little Rock, AK, WQM Plan identified urban runoff into Fourche Creek as the most significant nonpoint source water quality problem in the metropolitan area. Project objectives include, (1) clarifying the nature and extent of the problem; (2) analysis of the effectiveness of selected best management practices; (3) assessing cost effectiveness of BMP's, and (4) effects of application of BMP's throughout the Fourche Creek System.

BMP's evaluated included gabions, channel clearing with bank relocation and rip rap, and vegetation, and use of sodding with check dams to reduce slopes.

17. Document Analysis a. Descriptors

Hydrology
Urban development
Watersheds
Water pollution
Water resources
Sedimentation
Storms
Regional planning
Urban planning
Civil Engineering

b. Identifiers/Open-Ended Terms

Runoff
Streamflow
Stream pollution
Rainfall
Snowmelt
Soil Erosion
Water Quality
Sediments
Sediment Transport
Suspended Solids
Storm Drains
Urbanization
Land use

c. COSATI Field/Group

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Volume III: The Data Report

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1983

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Introduction

The three years of data generaged by the Fourche Creek Urban Runoff Project are assembled in this report. These data are organized into general sections:

(I) Water Quality;

(II) Land Use, Slopes and Soils.

The water quality data are further subdivided into four sub-sections:

(A) Dry weather, representing the results of general background sampling and sampling of best management practices;

(B) Storm Event

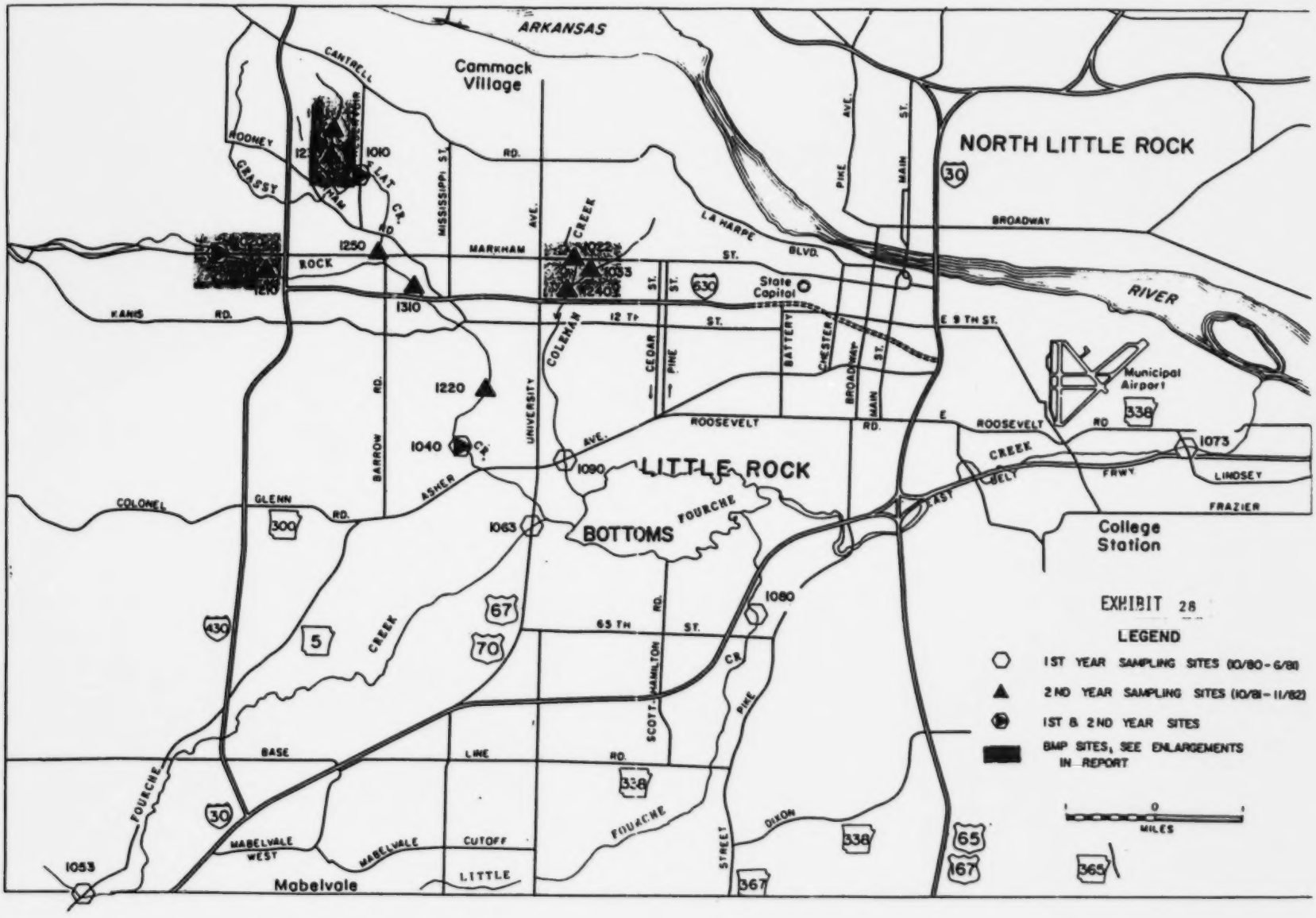
(C) Special Metals Sampling, requested by EPA as part of a national assessment of metals contamination in urban runoff;

(D) Priority Pollutants Sampling, a sampling for 129 priority pollutants requested by EPA as part of a national screening of urban runoff quality.

The land use, soils and slopes data are further subdivided into two parts:

(A) Level II land use description of the entire Fourche Creek drainage basin;

(B) Level III land use, slopes, and soils description of the sub-basins within the Fourche Creek watershed used for BMP evaluation.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Cammack Village
NORTH LITTLE ROCK
RIVER
LITTLE ROCK
BOTTOMS
College Station
Mabelvale
State Capital
Municipal Airport
CANTRELL
RODNEY
GRASSY
LAT CR.
MISSISSIPPI ST.
RD.
MARKHAM
ST.
LA HARPE
BLVD.
BROADWAY
ROCK
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CREEK
CEDAR
PINE
BATTERY
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AVE.
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UNIVERSITY
AVE.
ASHER
COLONEL
GLENN
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PIKE
BASE
LINE
RD.
MABELVALE WEST
MABELVALE
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STREET
DIXON
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1250
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1080
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2ND YEAR SAMPLING SITES (10/81-11/82)
1ST & 2ND YEAR SITES
BMP SITES, SEE ENLARGEMENTS IN REPORT
MILES

Exhibit 2:

Dry Weather Background Sampling Summary

(Bi-Weekly)

Samples were taken as follows:

Date	Stations:				
	1040	1053	1063	1073	1080
10/15/80	X	X	X	X	
10/30/80	X	X	X	X	
11/12/80	X	X	X	X	
11/25/80	X	X	X	X	
12/12/80	X	X	X	X	X
12/23/80	X	X	X	X	X
1/71/81	X	X	X	X	X
1/22/81	X	X	X	X	X
2/4/81	X	X	X	X	X
2/17/81	X	X	X	X	X
3/6/81	X	X	X	X	X
3/16/81	X	X	X	X	X
4/2/81	X	X	X	X	X
4/16/81	X	X	X	X	X
4/29/81	X	X	X	X	X
5/12/81	X	X	X	X	X
5/29/81	X	X	X	X	X
6/12/81	X	X	X	X	X
6/24/81	X	X	X	X	X
7/9/81	X	X	X	X	X
7/22/81	X	X	X	X	X

Dry Weather Summary (Cont'd)

Date:	Stations:				
	1040	1053	1063	1073	1080
8/5/81	X	X	X	X	X
8/20/81	X	X	X	X	X
9/3/81	X	X	X	X	X
9/18/81	X	X	X	X	X
10/2/81	X	X	X	X	X

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	
Date Sampled		10/15/80	10/15/80	10/15/80	10/15/80	
Time		11:05	10:45	11:15	10:10	
Stage Reading		2.65	4.25	22'8"	26'8"	
Discharge CFS		9	0	0	610	
Temperature of Water (°C)		22.0°	21.0°	21.0°	21.0°	
Dissolved Oxygen (mg/1)		9.8	7.9	5.6	8.9	
pH		6.70	6.95	7.20	7.40	
Specific Conductance (umhos)		99.7	197.8	202.8	204.3	
BOD_5 (mg/1)		5.0	4.5	9.5	3.5	
COD (mg/1)		8.2	6.2	28.5	14.4	
Suspended Solids (mg/1)		2.0	5.0	13.5	22.5	
Total Kjeldal Nitrogen (mg N/1)		0.15	0.20	0.39	0.25	
Total Phosphorus (mg/1)		0.19	0.21	0.09	0.18	
Fecal Coliform/100ml		110	160	150	1000	
Metals:	Al (mg/1)	< 0.200	< 0.200	< 0.200	< 0.200	
	Cr (mg/1)	< 0.010	< 0.010	< 0.010	< 0.010	
	Fe (mg/1)	0.380	0.391	1.141	1.032	
	Pb (mg/1)	< 0.010	< 0.010	< 0.010	< 0.010	
	Zn (mg/1)	0.057	0.034	0.028	0.140	

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	
Date Sampled		10/30/80	10/30/80	10/30/80	10/30/80	
Time		11:35	10:25	11:20	11:05	
Stage Reading		2.76	5.31	21'8"	26'8"	
Discharge CFS		13	4	13	610	
Temperature of Water (°C)		15.0°	9.5°	15.0°	15.0°	
Dissolved Oxygen (mg/l)		11.1	11.2	7.7	5.8	
pH		6.85	6.94	6.60	7.03	
Specific Conductance (umhos)		106.6	118.8	115.5	156.0	
BOD_5 (mg/l)		5.0	5.5	4.5	5.5	
COD (mg/l)		6.2	14.4	12.3	10.3	
Suspended Solids (mg/l)		3.0	3.0	9.5	20.5	
Total Kjeldal Nitrogen (mg N/l)		0.95	0.85	1.10	0.85	
Total Phosphorus (mg/l)		0.05	0.09	0.08	0.15	
Fecal Coliform/100ml		1050	430	3500	3200	
Metals	Al (mg/l)	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/l)	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/l)	0.326	0.076	0.228	0.250	
	Pb (mg/l)	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/l)	0.052	<0.010	0.029	0.027	

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	
Date Sampled		11/12/80	11/12/80	11/12/80	11/12/80	
Time		12:30	13:35	12:15	11:40	
Stage Reading		2.72	5.27	22'10"	28'9"	
Discharge CFS		11	4	0	590	
Temperature of Water (°C)		16.0	15.5	15.0	16.0	
Dissolved Oxygen (mg/l)		9.4	8.5	2.6	4.6	
pH		7.19	7.26	6.73	6.98	
Specific Conductance (umhos)		86.4	138.4	132.9	191.7	
BOD_5 (mg/l)		1.2	1.5	2.3	2.9	
COD (mg/l)		17.9	16.2	11.7	14.4	
Suspended Solids (mg/l)		2.5	5.5	8.5	14.0	
Total Kjeldal Nitrogen (mg N/l)		0.94	0.81	0.72	0.53	
Total Phosphorus (mg/l)		0.09	0.15	0.19	0.12	
Fecal Coliform/100ml		80	240	370	480	
Metals	Al (mg/l)	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/l)	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/l)	0.141	0.109	0.391	0.228	
	Pb (mg/l)	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/l)	0.025	0.021	0.040	0.045	

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	
Date Sampled		11/25/80	11/25/80	11/25/80	11/25/80	
Time		14:30	12:45	14:45	13:15	
Stage Reading		2.80	5.65	20'11"	26'9"	
Discharge CFS		13	20	40	590	
Temperature of Water (^{o}C)		9.0	9.0	8.5	9.0	
Dissolved Oxygen (mg/l)		11.2	11.8	9.7	5.5	
pH		7.12	7.10	6.97	6.79	
Specific Conductance (umhos)		107.0	120.7	118.3	150.9	
BOD_5 (mg/l)		1.2	2.0	1.1	3.2	
COD (mg/l)		12.9	11.3	8.9	12.1	
Suspended Solids (mg/l)		1.5	3.5	5.0	7.0	
Total Kjeldal Nitrogen (mg N/l)		0.51	0.98	0.87	0.78	
Total Phosphorus (mg/l)		0.09	0.15	0.08	0.14	
Fecal Coliform/100ml		2.0K	1.0K	1.8K	32K	
Metals	Al (mg/l)	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/l)	<0.010	0.012	<0.010	<0.010	
	Fe (mg/l)	0.555	0.185	0.481	0.555	
	Pb (mg/l)	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/l)	0.022	0.057	0.042	0.113	

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	AR 1080
Date Sampled		12/12/80	12/12/80	12/12/80	12/12/80	12/12/80
Time		12:20	11:55	12:30	11:20	11:40
Stage Reading		3.07	5.89	19'11½"	26'4½"	9'9½"
Discharge CFS		28	40	80	775	107
Temperature of Water (^{o}C)		9.5	9.5	9.0	11.0	10.5
Dissolved Oxygen (mg/l)		11.4	11.0	10.0	5.1	6.1
pH		7.21	7.19	7.35	6.67	6.15
Specific Conductance (umhos)		96.8	96.3	93.4	118.9	114.0
BOD_5 (mg/l)		1.5	0.9	1.7	1.9	1.9
COD (mg/l)		8.5	12.8	18.4	12.8	15.6
Suspended Solids (mg/l)		2.5	3.0	4.5	14.0	7.5
Total Kjeldal Nitrogen (mg N/l)		0.49	0.52	0.91	0.97	0.63
Total Phosphorus (mg/l)		0.79	0.19	0.13	0.09	0.13
Fecal Coliform/100ml		900	800	800	3500	1000
Metals	Al (mg/l)	<0.200	<0.200	<0.200	<0.200	<0.200
	Cr (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010
	Fe (mg/l)	0.463	0.314	0.481	0.907	0.805
	Pb (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010
	Zn (mg/l)	0.037	0.039	0.029	0.084	0.095

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	AR 1080
Date Sampled		12/23/80	12/23/80	12/23/80	12/23/80	12/23/80
Time		11:15	10:50	11:30	10:10	10:30
Stage Reading		2.83	4.45	21'4"	27'0"	11'0"
Discharge CFS		12	0	20	460	30
Temperature of Water (°C)		1.0	2.0	3.0	3.0	2.0
Dissolved Oxygen (mg/1)		14.0	13.2	12.3	9.4	12.0
pH		7.18	7.13	6.69	6.87	6.78
Specific Conductance (umhos)		88.9	132.5	104.9	129.4	137.5
BOD_5 (mg/1)		3.5	11.3	2.5	2.0	3.0
COD (mg/1)		9.8	16.8	14.0	14.0	16.8
Suspended Solids (mg/1)		-3.5	2.0	2.5	6.5	4.5
Total Kjeldal Nitrogen (mg N/1)		0.49	0.39	0.81	0.53	0.73
Total Phosphorus (mg/1)		0.18	0.12	0.13	0.07	0.08
Fecal Coliform/100ml		110	360	270	710	450
Metals	Al (mg/1)	<0.200	<0.200	<0.200	<0.200	<0.200
	Cr (mg/1)	<0.010	<0.010	<0.010	<0.010	<0.010
	Fe (mg/1)	0.907	0.630	0.926	1.204	0.685
	Pb (mg/1)	<0.010	<0.010	<0.010	<0.010	<0.010
	Zn (mg/1)	0.041	0.042	0.037	0.042	0.081

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	AR 1080
Date Sampled		1/7/81	1/7/81	1/7/81	1/7/81	1/7/81
Time		14:25	15:00	14:40	12:40	13:00
Stage Reading		2.75	5.53	20'10"	26'4"	10'11½"
Discharge CFS		11	13	38	695	32
Temperature of Water (°C)		4.0	2.0	4.0	5.0	4.0
Dissolved Oxygen (mg/1)		11.5	12.4	11.0	4.0	10.7
pH		7.10	7.29	6.83	6.54	6.98
Specific Conductance (umhos)		98.4	117.6	108.0	200.7	174.6
BOD_5 (mg/1)		3.8	7.1	2.3	3.5	0.6
COD (mg/1)		12.7	15.9	9.5	9.5	6.4
Suspended Solids (mg/1)		20.0	1.0	1.0	14.0	1.5
Total Kjeldal Nitrogen (mg N/1)		0.39	0.38	0.61	0.41	1.12
Total Phosphorus (mg/1)		0.23	0.12	0.11	0.19	0.15
Fecal Coliform/100ml		730	36	1030	810	490
Metals	Al (mg/1)	<0.200	<0.200	<0.200	<0.200	<0.200
	Cr (mg/1)	<0.010	<0.010	<0.010	<0.010	<0.010
	Fe (mg/1)	1.296	0.519	1.667	0.815	0.222
	Pb (mg/1)	<0.010	<0.010	<0.010	<0.010	<0.010
	Zn (mg/1)	0.081	0.061	0.047	0.069	0.017

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	AR 1080
Date Sampled		1/22/81	1/22/81	1/22/81	1/22/81	1/22/81
Time		16:05	15:40	16:15	14:50	15:10
Stage Reading		2.77	5.50	21'5"	26'8"	11'½"
Discharge CFS		12	11	20	610	28
Temperature of Water (^{o}C)		7.0	8.0	6.0	5.0	7.0
Dissolved Oxygen (mg/1)		10.9	10.2	10.7	5.9	9.8
pH		7.25	6.98	6.83	6.43	7.12
Specific Conductance (umhos)		117.6	111.4	130.1	168.5	173.5
BOD_5 (mg/1)		3.8	3.9	1.8	3.8	2.6
COD (mg/1)		8.5	15.6	6.5	15.5	12.8
Suspended Solids (mg/1)		21.0	5.0	3.5	8.5	4.0
Total Kjeldal Nitrogen (mg N/1)		0.26	0.13	0.13	0.18	0.20
Total Phosphorus (mg/1)		0.06	0.11	0.08	0.10	0.08
Fecal Coliform/100ml		300	64	200	178	158
Metals	Al (mg/1)	<0.200	<0.200	<0.200	<0.200	<0.200
	Cr (mg/1)	<0.010	<0.010	<0.010	<0.010	<0.010
	Fe (mg/1)	1.148	0.685	0.426	1.241	0.796
	Pb (mg/1)	<0.010	<0.010	<0.010	0.014	0.013
	Zn (mg/1)	0.120	0.069	0.074	0.035	0.032

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	AR 1080
Date Sampled		2/4/81	2/4/81	2/4/81	2/4/81	2/4/81
Time		15:30	15:05	16:00	14:30	14:45
Stage Reading		2.96	5.76	20'5"	26'9"	10'5"
Discharge CFS		20	28	57	590	63
Temperature of Water (^{o}C)		5.0	4.5	4.0	4.0	4.0
Dissolved Oxygen (mg/l)		9.5	9.5	9.1	7.6	8.4
pH		7.17	7.49	7.08	7.13	6.41
Specific Conductance (umhos)		72.5	96.0	92.3	113.4	132.3
BOD_5 (mg/l)		0.6	1.3	1.1	1.1	2.2
COD (mg/l)		4.6	6.6	8.0	5.2	7.2
Suspended Solids (mg/l)		3.5	3.0	2.5	19.5	9.5
Total Kjeldal Nitrogen (mg N/l)		0.59	0.72	0.41	0.29	0.43
Total Phosphorus (mg/l)		0.11	0.18	0.31	0.08	0.12
Fecal Coliform/100ml		310	170	340	230	290
Metals	Al (mg/l)	<0.200	<0.200	<0.200	<0.200	<0.200
	Cr (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010
	Fe (mg/l)	0.537	0.278	0.444	1.259	0.926
	Pb (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010
	Zn (mg/l)	0.042	0.039	0.041	0.135	0.078

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	AR 1080
Date Sampled		2/17/81	2/17/81	2/17/81	2/17/81	2/17/81
Time		14:30	14:15	14:50	13:35	13:50
Stage Reading		2.98	5.73	20'9"	26'7"	10'5"
Discharge CFS		21	25	42	680	63
Temperature of Water (^{o}C)		12.0	12.0	12.0	11.0	13.0
Dissolved Oxygen (mg/l)		10.1	10.1	9.0	8.2	13.0
pH		7.28	6.39	7.12	7.02	6.48
Specific Conductance (umhos)		75.3	95.6	93.0	108.0	106.6
BOD_5 (mg/l)		2.2	1.1	1.3	2.8	2.6
COD (mg/l)		2.1	6.3	13.9	13.2	14.6
Suspended Solids (mg/l)		6.0	4.0	11.5	11.5	5.5
Total Kjeldal Nitrogen (mg N/l)		0.25	0.45	0.63	0.39	0.21
Total Phosphorus (mg/l)		0.08	0.17	0.21	0.09	0.18
Fecal Coliform/100ml		2.1K	2.8K	1.7K	1.7K	2.1K
Metals	Al (mg/l)	<0.200	<0.200	<0.200	<0.200	<0.200
	Cr (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010
	Fe (mg/l)	0.639	0.888	0.352	0.278	0.796
	Pb (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010
	Zn (mg/l)	0.100	0.081	0.053	0.054	0.074

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR1040	AR1053	AR1063	AR1073	AR1080
Date Sampled		3/6/81	3/6/81	3/6/81	3/6/81	3/6/81
Time		14:30	14:00	10:30	11:20	10:35
Stage Reading		3.25	6.14	18'11"	25'11"	9'2½"
Discharge CFS		45	72	160	1020	150
Temperature of Water (°C)		10.5	11.0	9.5	11.0	11.5
Dissolved Oxygen (mg/l)		10.5	9.6	9.0	5.8	6.6
pH		7.15	7.12	6.94	6.69	6.33
Specific Conductance (umhos)		83.6	86.4	75.1	90.5	91.8
BOD_5 (mg/l)		1.2	0.7	1.1	2.1	1.3
COD (mg/l)		6.7	18.3	15.3	17.7	12.8
Suspended Solids (mg/l)		3.4	2.8	7.8	22.6	7.2
Total Kjeldal Nitrogen (mg N/l)		1.15	0.99	0.58	1.09	0.74
Total Phosphorus (mg/l)		0.13	0.06	0.10	0.07	0.15
Fecal Coliform/100ml		180	240	1.7K	5.7K	250
Metals (mg/l)	Al	<0.200	<0.200	<0.200	<0.200	<0.200
	Cr	<0.010	<0.010	<0.010	<0.010	<0.010
	Fe	0.306	0.583	1.222	0.944	1.513
	Pb	<0.010	<0.010	<0.010	<0.010	<0.010
	Zn	0.021	0.021	0.236	0.080	0.087

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR1040	AR1053	AR1063	AR1073	AR1080
Date Sampled		3/16/81	3/16/81	3/16/81	3/16/81	3/16/81
Time		15:00	15:30	14:50	16:05	15:45
Stage Reading		2.85	5.64	21'½"	26'7"	10'8½"
Discharge CFS		10	20	30	660	45
Temperature of Water (°C)		15.0	16.0	13.5	14.0	16.5
Dissolved Oxygen (mg/l)		10.9	11.5	9.7	7.3	8.3
pH		7.34	7.89	7.19	7.13	6.57
Specific Conductance (umhos)		105.0	103.2	95.3	118.4	121.2
BOD_5 (mg/l)		3.3	0.7	1.4	2.2	2.0
COD (mg/l)		12.4	16.6	6.0	5.5	23.4
Suspended Solids (mg/l)		4.4	8.0	5.6	16.8	10.0
Total Kjeldal Nitrogen (mg N/l)		0.72	0.17	0.42	0.92	1.47
Total Phosphorus (mg/l)		0.07	0.06	0.06	0.13	0.07
Fecal Coliform/100ml		168	108	108	252	132
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01
	Fe	0.597	0.583	0.639	0.806	1.125
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01
	Zn	0.032	0.023	0.023	0.034	0.041

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR1040	AR1053	AR1063	AR1073	AR1080
Date Sampled		4-2-81	4-2-81	4-2-81	4-2-81	4-2-81
Time		10:10	10:30	09:45	09:00	09:15
Stage Reading		2.88	5.69	20'10"	26'9"	10'9"
Discharge CFS		10	25	40	590	43
Temperature of Water (^{o}C)		18.0	18.0	18.0	17.0	17.0
Dissolved Oxygen (mg/l)		10.1	8.9	8.9	9.8	10.1
pH		7.08	7.65	6.54	6.64	6.29
Specific Conductance (umhos)		81.7	128.8	113.9	218.8	158.0
BOD_5 (mg/l)		1.9	1.8	2.7	6.3	5.3
COD (mg/l)		5.6	7.0	10.8	13.6	8.0
Suspended Solids (mg/l)		4.0	5.0	17.0	26.0	20.0
Total Kjeldal Nitrogen (mg N/l)		0.51	0.35	0.61	0.35	0.21
Total Phosphorus (mg/l)		0.13	0.10	0.19	0.25	0.09
Fecal Coliform/100ml		32	56	30	36	60
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01
	Fe	0.556	0.319	0.986	1.153	1.389
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01
	Zn	0.041	0.018	0.020	0.027	0.054

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR1040	AR1053	AR1063	AR1073	AR1080
Date Sampled		4-16-81	4-16-81	4-16-81	4-16-81	4-16-81
Time		14:50	14:15	15:10	13:25	13:05
Stage Reading		2.76	5.55	21'1"	26'9"	10'11"
Discharge CFS		-0-	14	30	560	85
Temperature of Water (°C)		17.5	17.5	18.5	17.5	18.0
Dissolved Oxygen (mg/l)		8.1	7.9	7.0	7.1	7.6
pH		7.12	7.26	6.91	6.79	6.15
Specific Conductance (umhos)		94.1	93.6	77.9	98.6	107.0
BOD_5 (mg/l)		1.5	1.1	2.3	1.8	1.9
COD (mg/l)		3.5	4.6	8.1	7.5	15.7
Suspended Solids (mg/l)		3.0	2.5	9.5	26.5	7.5
Total Kjeldal Nitrogen (mg N/l)		0.51	0.39	0.48	0.39	0.51
Total Phosphorus (mg/l)		0.15	0.08	0.21	0.17	0.09
Fecal Coliform/100ml		160	320	1.2K	3.5K	120
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01
	Fe	0.806	1.028	1.181	0.681	0.514
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01
	Zn	0.038	0.018	0.031	0.027	0.025

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR1040	AR1053	AR1063	AR1073	AR1080
Date Sampled		4-29-81	4-29-81	4-29-81	4-29-81	4-29-81
Time		11:50	11:15	12:05	10:35	10:10
Stage Reading		2.69	5.50	21'2"	26'10"	11'1"
Discharge CFS		-0-	11	25	560	25
Temperature of Water (^{o}C)		18.0	17.5	18.5	18.0	17.5
Dissolved Oxygen (mg/l)		7.5	7.1	6.9	7.6	7.9
pH		6.98	7.45	7.21	6.91	6.25
Specific Conductance (umhos)		97.8	106.7	79.5	97.8	118.3
BOD_5 (mg/l)		2.0	2.8	2.8	2.1	1.8
COD (mg/l)		7.7	6.6	8.8	5.5	8.2
Suspended Solids (mg/l)		2.5	4.0	11.5	31.0	6.0
Total Kjeldal Nitrogen (mg N/l)		0.73	0.31	0.65	0.65	0.40
Total Phosphorus (mg/l)		0.21	0.19	0.28	0.21	0.11
Fecal Coliform/100ml		250	530	2.1K	2.9K	190
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01
	Fe	0.514	0.847	0.583	0.528	0.417
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01
	Zn	0.052	0.023	0.059	0.045	0.038

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	AR 1080
Date Sampled		5-12-81	5-12-81	5-12-81	5-12-81	5-12-81
Time		13:55	14:15	13:45	15:00	14:45
Stage Reading		2.80	5.48	21'6"	26'9"	10'1"
Discharge CFS		9	11	23	590	87
Temperature of Water (^{o}C)		21.0	21.0	19.0	21.0	22.0
Dissolved Oxygen (mg/l)		10.1	10.7	6.8	5.3	4.6
pH		6.99	7.56	6.90	6.82	6.58
Specific Conductance (umhos)		86.4	121.0	128.8	117.7	113.4
BOD_5 (mg/l)		1.3	1.0	1.6	3.2	2.3
COD (mg/l)		16.7	14.5	17.4	22.5	23.2
Suspended Solids (mg/l)		14.0	6.0	3.5	4.5	113.4
Total Kjeldal Nitrogen (mg N/l)		0.95	0.24	0.75	0.98	1.15
Total Phosphorus (mg/l)		0.16	0.09	0.17	0.21	0.21
Fecal Coliform/100ml		76	20	56	292	88
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01
	Fe	0.722	0.431	1.222	1.139	3.138
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01
	Zn	0.018	0.025	0.041	0.029	0.027

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	AR 1080
Date Sampled		5-29-81	5-29-81	5-29-81	5-29-81	5-29-81
Time		17:00	13:40	17:10	12:55	13:15
Stage Reading		3.23	6.79	19'1"	26'4"	10'4"
Discharge CFS		45	195	140	800	68
Temperature of Water (^{o}C)		23.0	23.0	23.0	24.0	23.0
Dissolved Oxygen (mg/l)		8.2	8.5	8.7	7.5	2.4
pH		6.86	7.28	7.46	6.93	7.20
Specific Conductance (umhos)		72.2	96.4	91.1	92.4	109.6
BOD_5 (mg/l)		1.1	1.4	3.5	6.5	2.0
COD (mg/l)		7.1	8.5	9.0	12.9	8.5
Suspended Solids (mg/l)		6.0	3.5	28.5	10.5	5.5
Total Kjeldal Nitrogen (mg N/l)		0.79	0.29	0.35	0.38	0.63
Total Phosphorus (mg/l)		0.38	0.21	0.43	0.19	0.18
Fecal Coliform/100ml		2100	1700	2200	1500	110
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01
	Fe	0.972	0.611	1.528	1.194	2.991
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01
	Zn	0.029	0.321	0.032	0.036	0.080

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	AR 1080
Date Sampled		6/12/81	6/12/81	6/12/81	6/12/81	6/12/81
Time		14:20	14:00	13:35	15:00	15:25
Stage Reading		2.85	5.65	22'1"	26'7"	11'2"
Discharge CFS		10	20	7	675	22
Temperature of Water (^{o}C)		26.0	25.0	26.0	25.0	25.0
Dissolved Oxygen (mg/l)		9.1	9.3	6.0	5.9	4.5
pH		6.89	7.21	6.79	6.95	6.39
Specific Conductance (umhos)		90.5	98.5	125.5	145.5	87.8
BOD_5 (mg/l)		2.8	2.5	2.4	2.4	3.1
COD (mg/l)		9.8	6.5	10.9	17.9	10.5
Suspended Solids (mg/l)		3.5	4.5	10.5	12.5	10.5
Total Kjeldal Nitrogen (mg N/l)		0.41	0.39	0.49	0.65	0.73
Total Phosphorus (mg/l)		0.08	0.12	0.19	0.19	0.25
Fecal Coliform/100ml		120	150	160	190	70
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01
	Fe	0.250	0.255	0.260	0.385	0.250
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01
	Zn	<0.01	0.035	0.015	0.015	<0.01

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	AR 1080
Date Sampled		6/24/81	6/24/81	6/24/81	6/24/81	6/24/81
Time		15:25	15:00	14:03	14:40	14:24
Stage Reading		2.64	5.51	22'3"	26'8"	11'5"
Discharge CFS		0	14	5	605	12
Temperature of Water (^{o}C)		33.0	31.0	29.0	30.0	33.0
Dissolved Oxygen (mg/l)		9.6	9.2	5.5	3.5	4.1
pH		7.10	7.49	6.83	6.86	6.46
Specific Conductance (umhos)		86.9	110.4	102.4	134.6	93.8
BOD_5 (mg/l)		2.5	2.6	2.5	3.2	3.4
COD (mg/l)		16.8	13.8	15.1	26.7	36.6
Suspended Solids (mg/l)		4.5	4.0	9.5	15.0	17.5
Total Kjeldal Nitrogen (mg N/l)		0.79	0.63	0.59	0.94	1.12
Total Phosphorus (mg/l)		0.07	0.07	0.13	0.24	0.15
Fecal Coliform/100ml		64	68	112	176	60
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01
	Fe	0.325	0.350	1.085	1.595	2.650
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01
	Zn	0.018	<0.01	0.025	0.20	0.035

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	AR 1080
Date Sampled		7/9/81	7/9/81	7/9/81	7/9/81	7/9/81
Time		11:40	17:10	11:25	10:50	11:05
Stage Reading		3.09	5.65	21'1"	26'10"	10'1"
Discharge CFS		28	19	35	550	85
Temperature of Water (°C)		28.0	32.5	27.0	28.0	28.0
Dissolved Oxygen (mg/l)		8.0	2.4	5.4	8.7	1.6
pH		7.21	7.64	7.50	6.83	6.00
Specific Conductance (umhos)		74.4	101.2	86.5	96.7	88.4
BOD_5 (mg/l)		4.8	0.1	2.7	5.4	0.1
COD (mg/l)		7.3	8.5	10.2	16.6	14.6
Suspended Solids (mg/l)		2.0	14.0	21.5	10.5	6.5
Total Kjeldal Nitrogen (mg N/l)		0.74	0.68	0.79	1.23	0.77
Total Phosphorus (mg/l)		0.24	0.07	0.23	0.19	0.18
Fecal Coliform/100ml		160	80	320	360	440
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01
	Fe	0.350	0.395	1.251	0.985	1.450
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01
	Zn	0.025	0.015	0.028	0.035	0.040

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	AR 1080
Date Sampled		7/22/81	7/22/81	7/22/81	7/22/81	7/22/81
Time		15:22	15:00	15:35	14:06	14:27
Stage Reading		2.78	5.47	22'1"	26'8"	11'11"
Discharge CFS		5	10	5	630	0
Temperature of Water (°C)		31.0	31.0	30.0	29.5	34.0
Dissolved Oxygen (mg/l)		8.1	7.8	4.8	0.7	10.1
pH		7.08	7.45	6.78	6.99	6.90
Specific Conductance (umhos)		90.6	120.6	98.1	171	141
BOD_5 (mg/l)		6.1	6.3	1.1	0.7	5.5
COD (mg/l)		23.0	12.9	14.8	30.0	31.2
Suspended Solids (mg/l)		3.5	2.5	7.5	69.5	59.0
Total Kjeldal Nitrogen (mg N/l)		0.94	0.57	0.74	1.29	1.52
Total Phosphorus (mg/l)		0.14	0.16	0.18	0.31	0.21
Fecal Coliform/100ml		140	120	124	1300	740
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01
	Fe	0.350	0.400	0.265	2.950	5.250
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01
	Zn	0.025	< 0.01	<0.01	0.050	<0.01

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	AR 1080
Date Sampled		8/5/81	8/5/81	8/5/81	8/5/81	8/5/81
Time		13:45	14:00	15:05	14:40	14:20
Stage Reading		2.58	4.78	23'2"	26'10"	12'1"
Discharge CFS		0	0	0	550	0
Temperature of Water (°C)		32,0	32.0	32.0	32.0	32.0
Dissolved Oxygen (mg/l)		8.9	5.8	7.7	7.7	8.5
pH		7.23	7.27	6.81	7.53	7.46
Specific Conductance (umhos)		139.4	126.7	113.9	182.8	153.0
BOD_5 (mg/l)		3.7	3.8	5.0	5.9	7.0
COD (mg/l)		8.1	3.1	11.2	10.0	12.0
Suspended Solids (mg/l)		2.0	5.0	10.0	12.5	7.0
Total Kjeldal Nitrogen (mg N/l)		0.88	0.81	0.86	0.88	0.82
Total Phosphorus (mg/l)		0.05	0.08	0.12	0.13	0.06
Fecal Coliform/100ml		2040	190	330	310	150
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01
	Fe	0.300	1.010	1.590	0.590	0.750
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01
	Zn	0.025	<0.01	0.158	<0.01	<0.01

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR 1040	AR 1053	AR 1063	AR 1073	AR 1080
Date Sampled		8/20/81	8/20/81	8/20/81	8/20/81	8/20/81
Time		15:30	14:45	15:45	13:25	13:55
Stage Reading		2.53	4.68	23'3"	26'10"	12'1"
Discharge CFS		-0-	-0-	-0-	-0-	-0-
Temperature of Water (^{o}C)		31.0	31.0	31.0	31.0	31.0
Dissolved Oxygen (mg/l)		7.9	5.3	7.3	7.5	5.2
pH		7.15	7.09	6.98	7.29	7.38
Specific Conductance (umhos)		117.5	129.8	110.8	191.8	147.2
BOD_5 (mg/l)		2.8	3.1	2.1	3.5	4.1
COD (mg/l)		8.7	7.2	6.9	8.1	11.9
Suspended Solids (mg/l)		2.5	3.5	9.5	11.0	8.0
Total Kjeldal Nitrogen (mg N/l)		0.72	0.68	0.55	0.85	0.83
Total Phosphorus (mg/l)		0.13	0.09	0.08	0.19	0.12
Fecal Coliform/100ml		1500	230	350	290	110
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01
	Fe	0.585	0.495	0.20	1.100	4.220
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01
	Zn	0.025	0.095	0.035	0.030	<0.01

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR1040	AR1053	AR1063	AR1073	AR1080
Date Sampled		9/3/81	9/3/81	9/3/81	9/3/81	9/3/81
Time		12:55	15:35	14:40	13:55	13:45
Stage Reading		2.51	4.65	23'4"	26'11"	12'2"
Discharge CFS		-0-	-0-	-0-	500	-0-
Temperature of Water (°C)		28.0	28.0	29.0	29.0	29.0
Dissolved Oxygen (mg/l)		6.8	6.5	6.9	6.1	5.8
pH		6.58	6.25	6.85	6.98	6.21
Specific Conductance (umhos)		98.5	109	129	139	87.0
BOD_5 (mg/l)		3.1	2.2	3.5	2.9	3.5
COD (mg/l)		18.5	12.5	13.0	10.5	9.5
Suspended Solids (mg/l)		2.5	1.5	2.5	4.5	1.5
Total Kjeldal Nitrogen (mg N/l)		1.49	1.21	0.98	0.97	1.10
Total Phosphorus (mg/l)		0.15	0.25	0.19	0.20	0.15
Fecal Coliform/100ml		290	320	690	580	110
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01
	Fe	0.690	3.300	1.590	0.290	1.350
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01
	Zn	0.030	0.217	0.045	0.050	0.055

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR1040	AR1053	AR1063	AR1073	AR1080
Date Sampled		9/18/81	9/18/81	9/18/81	9/18/81	9/18/81
Time		14:35	14:15	13:55	13:05	13:30
Stage Reading		2.48	4.63	23'5"	26'11"	12'2"
Discharge CFS		-0-	-0-	-0-	500	-0-
Temperature of Water (^{o}C)		28.0	28.0	28	28	28
Dissolved Oxygen (mg/l)		7.7	6.5	6.5	6.1	6.3
pH		6.96	7.21	6.78	7.35	7.42
Specific Conductance (umhos)		98.5	117.5	135.8	135.5	152.5
BOD_5 (mg/l)		2.1	2.1	3.5	3.2	5.2
COD (mg/l)		6.2	7.2	9.8	9.5	8.5
Suspended Solids (mg/l)		2.5	3.5	2.5	4.5	4.5
Total Kjeldal Nitrogen (mg N/l)		0.48	0.45	0.63	0.65	0.78
Total Phosphorus (mg/l)		0.09	0.13	0.12	0.13	0.15
Fecal Coliform/100ml		430	350	750	540	250
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01
	Fe	1.100	4.500	0.900	0.305	0.985
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01
	Zn	0.035	0.075	0.085	0.055	0.035

NATIONAL URBAN RUNOFF PROGRAM

Dry Weather

Station Number		AR1040	AR1053	AR1063	AR1073	AR1080
Date Sampled		10/2781	10/2/81	10/2/81	10/2/81	10/2/81
Time		09:45	10:10	11:40	11:10	10:55
Stage Reading		2.50	4.63	23'4"	26'11"	12'2"
Discharge CFS		-0-	-0-	-0-	500	-0-
Temperature of Water (^{o}C)		28	28	28	29	28
Dissolved Oxygen (mg/l)		6.9	6.3	6.1	6.3	5.5
pH		6.71	6.25	6.89	7.12	6.19
Specific Conductance (umhos)		115.0	79.5	121.5	129.5	89.0
BOD_5 (mg/l)		4.1	2.1	1.9	2.2	3.3
COD (mg/l)		8.2	7.9	8.0	6.5	6.5
Suspended Solids (mg/l)		2.5	1.5	3.0	5.5	2.5
Total Kjeldal Nitrogen (mg N/l)		0.95	1.21	1.08	0.65	0.75
Total Phosphorus (mg/l)		0.15	0.18	0.09	0.10	0.21
Fecal Coliform/100ml		310	450	700	550	150
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01
	Fe	0.505	1.970	1.520	0.810	0.950
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01
	Zn	0.027	0.159	0.082	0.015	0.078

Exhibit 3

FOURCHE CREEK URBAN RUNOFF PROJECT EVENT SUMMARY

Event Date:	AR 1010	AR 1020	AR 1040	AR 1053	AR 1063	AR 1073	AR 1080	AR 1090	AR 1210	AR 1220	AR 1310	AR 1022	AR 1033	AR 1240	AR 1011	AR 1230	AR 1250
10/17/80		X	XC					X									
10/27/80	X																
11/14/80			XC		XC	XC											
12/8/80								X									
1/6/81	X																
2/1/81	X	XC	XC														
2/10/81				XC				X									
2/28/81				XC	XC	XC	X										
3/21/81				XC	XC		X										
4/18/81								X									
5/17/81		XC	XC	XC	XC	XC											
5/25/81	XC	XC				XC	XC										
6/3/81							XC										
6/30/81		X	X						X								
10/23/81												XC	XC	XC			
11/22/81												XC	XC	XC			
1/2/82												XC	XC	XC			
1/22/82		XC	XC						XC	XC	XC						

Event Date:	AR 1010	AR 1020	AR 1040	AR 1053	AR 1063	AR 1073	AR 1080	AR 1090	AR 1210	AR 1220	AR 1310	AR 1022	AR 1033	AR 1240	AR 1011	AR 1230	AR 1250
1/29/82			XC														
2/8/82										XC	XC						
2/16/82			XC												XC	XC	
3/14/82	XC	XC								XC							
4/1/82	XC								XC		XC						XC
4/2/82																	XC
4/18/82									XC								
5/6/82												XC	XC	XC			
5/19/82															XC	XC	
10/28/82															XC	XC	
11/19/82		XC	XC						XC	XC	XC				X	X	

Note: X=Sample Taken

C=Composite Calculated

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1020 Location Rock Creek @ West Markham St.

Event Date 10/17/80

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		10/17	10/17	10/17	10/17	10/17	10/17	10/17	
Time		08:30	11:35	12:45	14:38	15:53	17:30	18:30	
Stage Reading		12'8"	11'10½"	11'9"	12'5½"	12'8"	12'9½"	12'11"	
Discharge CFS		221	590	670	300	221	185	108	
Temperature of Water (°C)		20.0°	20.0°	20.0°	20.0°	20.0°	20.0°	20.0°	
Dissolved Oxygen (mg/l)		5.4	7.6	6.3	6.1	5.6	6.6	7.3	
pH		6.95	6.60	6.45	6.40	6.36	6.41	6.28	
Specific Conductance (umhos)		92.1	96.6	38.8	52.8	68.0	124.6	97.4	
BOD_5 (mg/l)		5.5	6.0	4.0	6.0	5.0	20.0	6.0	
COD (mg/l)		39.0	45.1	14.4	12.3	12.3	24.6	10.3	
Suspended Solids (mg/l)		594	554	205	109	70	75	63	
Total Kjeldal Nitrogen (mg N/l)		1.10	1.20	0.80	1.15	1.20	0.50	0.67	
Total Phosphorus (mg P/l)		0.08	0.10	0.15	0.16	0.30	0.25	0.28	
Fecal Coliform/100ml		1000	4.8K	3.2K	37K	7.9K	19K	4.2K	
Metals	Al (mg/l)	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/l)	<0.010	0.015	0.012	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/l)	6.467	2.391	3.380	2.054	1.402	0.457	0.293	
	Pb (mg/l)	0.010	0.029	0.021	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/l)	0.135	0.065	0.034	0.044	0.052	0.086	0.141	

(2)

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1040 Location Rock Creek @ 36th St.

Event Date 10/17/80

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		10/17	10/17	10/17	10/17	10/17	10/17	10/17	
Time		08:45	11:20	11:50	13:15	14:20	15:15	18:30	
Stage Reading		2.80	6.38	7.54	6.15	4.99	4.40	3.59	
Discharge CFS		10	1376	1600	1045	457	266	90	
Temperature of Water (^{o}C)		20.0	20.0	20.0	20.0	20.0	20.0	20.0	
Dissolved Oxygen (mg/l)		7.6	6.1	6.7	6.7	5.9	6.1	7.5	
pH		6.85	6.57	6.60	6.79	6.82	6.31	6.68	
Specific Conductance (umhos)		87.3	57.8	54.5	145.0	64.2	70.1	85.8	
BOD_5 (mg/l)		12.0	19.0	9.5	7.0	6.5	5.5	6.0	
COD (mg/l)		4.1	71.8	73.8	4.1	22.6	28.7	16.4	
Suspended Solids (mg/l)		11.5	954	1390	28	414	372	127	
Total Kjeldal Nitrogen (mg N/l)		1.01	1.95	1.81	1.00	1.25	0.85	0.75	
Total Phosphorus (mg P/l)		0.10	0.38	0.20	0.35	0.30	0.12	0.15	
Fecal Coliform/100ml		570	38K	60K	10K	40K	27K	12K	
Metals	Al (mg/l)	<0.200	1.280	1.590	<0.200	0.345	<0.200	<0.200	
	Cr (mg/l)	<0.010	<0.010	0.015	0.019	<0.010	<0.010	<0.010	
	Fe (mg/l)	0.228	3.402	4.446	2.957	1.957	0.978	0.565	
	Pb (mg/l)	<0.010	<0.010	0.021	0.035	<0.010	<0.010	<0.010	
	Zn (mg/l)	0.029	0.170	0.153	0.055	0.062	0.041	0.128	

(3)

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1090 Location Coleman Creek @ Asher Ave.

Event Date 10/17/80

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		10/17	10/17	10/17	10/17	10/17	10/17	10/17	
Time		09:00	10:20	10:57	12:00	13:25	14:05	15:33	
Stage Reading		6'8½"	5'6"	3'5"	6'5½"	6'10"	7'1½"	7'7"	
Discharge CFS		100	343	1025	126	90	57	46	
Temperature of Water (°C)		22.0°	20.0°	20.0°	20.0°	20.0°	20.0°	20.0°	
Dissolved Oxygen (mg/1)		8.5	5.5	7.6	5.5	7.8	6.5	5.9	
pH		6.47	6.43	6.73	6.80	6.61	6.64	6.67	
Specific Conductance (umhos)		69.4	55.8	44.6	45.8	68.0	68.0	89.1	
BOD_5 (mg/1)		16.5	23.0	12.0	8.5	6.0	7.0	5.0	
COD (mg/1)		67.7	71.8	77.9	47.2	20.5	18.5	26.7	
Suspended Solids (mg/1)		944	121	847	460	99	66	24	
Total Kjeldal Nitrogen (mg N/1)		1.10	1.50	1.47	1.18	0.90	0.50	0.75	
Total Phosphorus (mg P/1)		0.15	0.20	0.29	0.25	0.10	0.12	0.10	
Fecal Coliform/100ml		8.4K	32K	230	28K	14K	34K	38K	
Metals	Al (mg/1)	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/1)	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/1)	3.500	0.957	5.950	4.850	2.565	1.707	0.152	
	Pb (mg/1)	0.025	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/1)	0.224	0.179	0.278	0.138	0.101	0.062	<0.010	

4/ NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1010 Location Grassy Flats @ Resevoir Road

Event Date 10/27/80

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		10/27	10/27	10/27	10/27	10/27	10/27	10/27	
Time		07:00	08:30	08:45	09:15	10:05	12:25	15:09	
Stage Reading		4.25	6.30	6.55	5.90	5.15	4.85	4.50	
Discharge CFS		7	195	250	130	50	30	15	
Temperature of Water (^{o}C)		14.0^{o}	15.0^{o}	15.0^{o}	15.0^{o}	15.0^{o}	15.0^{o}	18.5^{o}	
Dissolved Oxygen (mg/1)		8.9	9.8	9.7	10.1	9.8	10.1	9.3	
pH		7.09	6.69	6.46	6.60	6.68	6.94	6.86	
Specific Conductance (umhos)		157.6	61.7	58.9	53.4	61.2	84.3	111.8	
BOD_5 (mg/1)		16.5	8.5	5.5	6.0	7.5	4.5	10.5	
COD (mg/1)		23.6	17.4	9.2	13.3	6.2	9.2	7.2	
Suspended Solids (mg/1)		4.0	646	746	357	126	32.5	20.5	
Total Kjeldal Nitrogen (mg N/1)		1.95	1.62	0.98	1.20	0.75	1.10	1.15	
Total Phosphorus (mg P/1)		0.19	0.31	0.28	0.19	0.10	0.13	0.15	
Fecal Coliform/100ml		33K	71K	73K	103K	60K	23K	13K	
Metals	Al (mg/1)	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/1)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/1)	0.228	4.359	3.457	2.283	1.978	0.576	0.370	
	Pb (mg/1)	0.025	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/1)	0.031	0.130	<0.010	<0.010	0.037	0.041	0.028	

(5)

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1040 Location Rock Creek @ 36th St.

Event Date 11/14/80

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		11/14	11/14	11/14	11/14	11/14	11/14	11/15	
Time		07:45	09:20	10:20	12:40	19:15	21:00	11:30	
Stage Reading		5.01	5.69	6.01	4.86	4.20	3.96	3.15	
Discharge CFS		464	785	949	412	210	204	35	
Temperature of Water (^{o}C)		13.5	13.0	13.5	14.0	14.0	14.0	8.0	
Dissolved Oxygen (mg/l)		9.2	9.6	9.5	9.4	9.9	9.7	9.7	
pH		6.56	6.39	6.51	6.70	6.85	6.74	6.88	
Specific Conductance (umhos)		71.8	53.2	52.8	51.1	69.2	84.8	111.5	
BOD_5 (mg/l)		10.0	7.9	6.0	5.5	4.9	4.6	3.1	
COD (mg/l)		35.4	42.4	43.1	29.5	18.1	9.0	8.3	
Suspended Solids (mg/l)		188.0	312.0	318.0	191.0	35.0	31.0	3.0	
Total Kjeldal Nitrogen (mg N/l)		1.18	1.48	1.98	1.76	1.69	1.38	0.89	
Total Phosphorus (mg P/l)		0.12	0.15	0.21	0.19	0.17	0.18	0.13	
Fecal Coliform/100ml		22K	75K	75K	70K	16K	27K	17K	
Metals	Al (mg/l)	<0.200	0.450	0.510	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/l)	3.299	5,510	3.915	1.533	1.250	1.033	0.549	
	Pb (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/l)	0.056	0.084	0.098	0.121	0.079	0.079	0.076	

(6)

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1063 Location Fouche Creek @ University

Event Date 11/14/80

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		11/14	11/14	11/14	11/14	11/15	11/15	11/16	
Time		08:10	09:35	12:53	21:20	00:21	11:40	12:30	
Stage Reading		19'7"	17'9½"	16'3"	16'9"	17'2"	18'5"	20'8"	
Discharge CFS		111	264	490	406	344	201	23	
Temperature of Water (°C)		13.0	13.0	13.0	13.0	13.0	12.0	10.0	
Dissolved Oxygen (mg/1)		6.8	4.7	7.2	7.6	7.2	7.9	8.9	
pH		6.65	6.54	6.67	6.78	6.51	6.58	6.69	
Specific Conductance (umhos)		90.0	65.4	84.9	92.5	100.1	104.2	104.8	
BOD_5 (mg/1)		6.7	6.0	9.2	7.2	10.0	4.1	2.6	
COD (mg/1)		26.4	25.0	44.0	25.0	17.4	12.5	9.0	
Suspended Solids (mg/1)		30.0	36.0	36.8	42.0	51.0	14.0	11.0	
Total Kjeldal Nitrogen (mg N/1)		1.10	0.99	1.64	1.41	1.10	1.15	1.09	
Total Phosphorus (mg P/1)		0.15	0.19	0.13	0.09	0.10	0.13	0.12	
Fecal Coliform/100ml		16K	41K	76K	17K	5.5K	20K	21K	
Metals	Al (mg/1)	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/1)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/1)	1.376	1.036	1.479	1.141	1.340	0.690	0.559	
	Pb (mg/1)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/1)	0.083	0.074	0.063	0.147	0.063	0.079	0.143	

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1073 Location Fouche Creek @ Lindsey Rd.

Event Date 11/14/80

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		11/14	11/14	11/14	11/14	11/14	11/15	11/16	
Time		08:45	11:30	13:30	20:23	23:07	12:15	13:05	
Stage Reading		26'10"	26'7"	26'5"	26'7"	26'8"	26'9"	26'9½"	
Discharge CFS		570	680	755	680	639	604	587	
Temperature of Water (°C)		14.0	13.0	13.0	13.0	13.5	13.0	11.0	
Dissolved Oxygen (mg/l)		7.6	6.5	4.9	7.7	7.1	5.1	5.6	
pH		7.32	7.13	6.83	6.72	6.62	6.60	6.45	
Specific Conductance (umhos)		197.1	199.0	129.3	111.5	148.4	114.0	119.8	
BOD_5 (mg/l)		5.4	7.5	6.8	7.2	9.2	7.6	4.5	
COD (mg/l)		27.1	37.5	38.1	36.1	29.2	22.9	13.2	
Suspended Solids (mg/l)		65.0	198.0	212.0	137.0	56.0	75.0	51.0	
Total Kjeldal Nitrogen (mg N/l)		0.81	0.92	0.91	0.87	0.78	0.61	0.69	
Total Phosphorus (mg P/l)		0.12	0.19	0.18	0.10	0.13	0.14	0.10	
Fecal Coliform/100ml		20K	6.9K	44K	39K	20K	25K	10K	
Metals	Al (mg/l)	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/l)	2.219	5.141	5.325	2.880	2.418	1.712	1.353	
	Pb (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/l)	0.126	0.105	0.147	0.132	0.087	0.072	0.054	

(8) NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1090 Location Coleman & Asher Ave.

Event Date 12/8/80

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		12/8	12/8	12/8	12/8	12/8	12/8	12/9	
Time		14:15	15:30	17:15	19:20	21:00	23:50	04:15	
Stage Reading		7'5"	6'0"	5'3"	6'2"	6'8"	7'3"	7'9"	
Discharge CFS		37	215	405	183	105	48	18	
Temperature of Water (^{o}C)		11.5	12.0	13.5	15.0	13.0	12.0	11.0	
Dissolved Oxygen (mg/l)		7.8	8.1	8.8	9.2	9.5	9.5	7.9	
pH		6.51	6.48	6.67	6.43	6.45	6.51	6.48	
Specific Conductance (umhos)		76.2	59.9	53.5	66.0	81.5	86.6	94.6	
BOD_5 (mg/l)		22.8	23.6	22.8	7.1	5.4	4.4	2.8	
COD (mg/l)		53.9	68.9	82.4	38.9	35.9	28.5	23.9	
Suspended Solids (mg/l)		100.0	318.0	360.0	184.0	49.5	24.0	21.0	
Total Kjeldal Nitrogen (mg N/l)		1.93	2.38	2.47	2.10	1.98	1.80	2.13	
Total Phosphorus (mg P/l)		0.21	0.31	0.26	0.21	0.17	0.10	0.19	
Fecal Coliform/100ml		49K	71K	80K	51K	40K	31K	12K	
Metals	Al (mg/l)	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/l)	0.016	0.014	<0.010	0.011	<0.010	<0.010	<0.010	
	Fe (mg/l)	4.129	5.019	2.815	1.926	1.167	0.852	0.778	
	Pb (mg/l)	0.020	0.036	0.014	0.021	<0.010	<0.010	<0.010	
	Zn (mg/l)	0.179	0.229	0.147	0.088	0.069	0.076	0.066	

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1010 Location Grassy Flats @ Resevoir Rd.

Event Date 1/6/81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		1/6	1/6	1/6	1/6	1/6	1/6	1/6	
Time		08:40	09:10	10:00	11:00	11:25	12:40	15:25	
Stage Reading		4.75	4.95	5.15	4.87	4.75	4.52	4.37	
Discharge CFS		25	37	50	33	25	15	9	
Temperature of Water (^{o}C)		4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Dissolved Oxygen (mg/l)		11.2	11.2	11.2	10.9	11.5	11.2	10.7	
pH		6.79	6.68	6.81	6.59	6.67	6.63	6.71	
Specific Conductance (umhos)		90.5	91.3	85.7	82.6	84.9	85.7	88.9	
BOD_5 (mg/l)		5.9	10.1	10.3	8.3	8.1	6.2	2.0	
COD (mg/l)		14.9	18.4	22.8	18.4	17.5	16.7	9.6	
Suspended Solids (mg/l)		182	396	414	109	94	65	17	
Total Kjeldal Nitrogen (mg N/l)		0.35	0.41	0.37	0.32	0.25	0.19	0.29	
Total Phosphorus (mg P/l)		0.23	0.35	0.19	0.29	0.15	0.21	0.20	
Fecal Coliform/100ml		4.4K	15K	38K	22K	5.6K	2.5K	1.5K	
Metals	Al (mg/l)	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/l)	4.667	6.852	5.148	3.704	3.056	2.778	1.944	
	Pb (mg/l)	0.012	0.018	0.034	0.025	0.020	0.018	0.020	
	Zn (mg/l)	0.106	0.152	0.095	0.071	0.064	0.063	0.049	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1010 Location Grassy Flats @ Reservoir Road

Event Date 2/1/81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		2/1	2/1	2/1	2/1	2/1	2/1	2/1	
Time		00:10	00:40	02:00	03:00	04:00	11:45	18:00	
Stage Reading		4.65	5.03	7.05	6.65	5.70	4.80	4.00	
Discharge CFS		20	43	375	275	100	28	2	
Temperature of Water (^{o}C)		4.0	4.0	3.0	3.0	3.0	3.0	2.0	
Dissolved Oxygen (mg/l)		9.8	10.2	10.0	10.2	10.1	10.2	9.8	
pH		6.94	6.90	6.53	6.84	6.96	7.15	7.27	
Specific Conductance (umhos)		96.8	93.2	51.2	68.0	89.6	113.4	125.0	
BOD_5 (mg/l)		9.6	16.4	23.2	12.4	10.8	7.0	4.5	
COD (mg/l)		32.5	66.7	74.5	56.2	40.2	20.9	19.6	
Suspended Solids (mg/l)		54.0	117.0	606.0	326.0	116.0	12.5	17.5	
Total Kjeldal Nitrogen (mg N/l)		1.16	1.21	1.28	1.24	0.84	0.86	1.27	
Total Phosphorus (mg P/l)		0.31	0.22	0.30	0.58	0.96	0.43	0.12	
Fecal Coliform/100ml		8.1K	27K	49K	38K	17K	5.3K	7.1K	
Metals	Al (mg/l)	<0.200	<0.200	0.325	0.285	<0.200	<0.200	<0.200	
	Cr (mg/l)	<0.010	0.013	0.012	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/l)	1.926	3.111	6.630	4.148	3.241	0.593	0.889	
	Pb (mg/l)	<0.010	0.034	0.047	0.018	0.011	0.012	<0.010	
	Zn (mg/l)	0.037	0.083	0.140	0.081	0.079	0.047	0.037	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1020 Location Rock Creek at West Markham

Event Date 2/1/81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		2/1	2/1	2/1	2/1	2/1	2/1	2/2	
Time		01:00	02:25	04:15	12:20	14:35	18:30	10:45	
Stage Reading		13'1"	12'10"	12'4"	12'7"	12'9"	12'10"	13'1½"	
Discharge CFS		80	180	356	242	189	180	75	
Temperature of Water (°C)		3.0	3.0	3.0	4.0	3.0	3.0	1.0	
Dissolved Oxygen (mg/l)		10.1	10.3	10.3	10.1	10.1	10.3	10.3	
pH		6.26	6.61	6.52	6.25	6.13	6.20	6.32	
Specific Conductance (umhos)		42.6	79.2	80.4	43.6	41.7	40.8	43.2	
BOD_5 (mg/l)		8.0	19.2	23.6	27.6	9.9	9.4	9.0	
COD (mg/l)		20.9	40.5	48.9	20.9	19.6	22.2	26.1	
Suspended Solids (mg/l)		22.0	621.0	598.0	18.0	21.5	9.5	6.5	
Total Kjeldal Nitrogen (mg N/l)		1.94	2.05	1.76	1.32	1.21	0.90	0.82	
Total Phosphorus (mg P/l)		0.72	0.91	0.77	0.12	0.16	0.10	0.10	
Fecal Coliform/100ml		9.7K	21K	19K	11.1K	5.4K	3.2K	3.0K	
Metals	Al (mg/l)	<0.200	0.305	0.450	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/l)	0.907	7.129	7.315	0.648	0.796	0.593	1.148	
	Pb (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/l)	0.044	0.098	0.095	0.041	0.034	0.015	0.011	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1040 Location Rock Creek at 36th Street

Event Date 2/1/81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		2/1	2/1	2/1	2/1	2/1	2/1	2/1	
Time		01:20	02:40	03:40	04:35	05:20	13:00	19:40	
Stage Reading		3.15	4.87	5.31	4.93	4.30	4.00	3.13	
Discharge CFS		35	415	595	435	235	200	35	
Temperature of Water (^{o}C)		3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Dissolved Oxygen (mg/l)		9.8	9.6	9.6	9.7	9.7	9.7	9.7	
pH		6.79	6.44	6.75	6.53	6.81	6.80	7.05	
Specific Conductance (umhos)		65.7	52.9	47.9	50.4	64.5	74.4	68.4	
BOD_5 (mg/l)		8.0	9.5	9.5	9.3	8.4	8.6	6.3	
COD (mg/l)		20.9	32.7	41.8	32.5	30.1	28.8	26.1	
Suspended Solids (mg/l)		136.0	132.0	358.0	306.0	302.0	122.0	8.5	
Total Kjeldal Nitrogen (mg N/l)		1.61	1.46	1.44	1.26	1.43	1.28	1.18	
Total Phosphorus (mg P/l)		0.23	0.22	0.96	0.60	0.53	0.23	0.12	
Fecal Coliform/100ml		16K	27K	29K	31K	29K	10.1K	8.7K	
Metals	Al (mg/l)	<0.200	<0.200	0.390	0.350	0.365	<0.200	<0.200	
	Cr (mg/l)	0.016	0.016	<0.010	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/l)	3.704	3.630	4.351	3.481	3.278	2.185	1.333	
	Pb (mg/l)	0.014	0.020	0.011	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/l)	0.056	0.073	0.042	0.081	0.137	0.044	0.047	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1053 Location Fouche Creek @ Hwy 5

Event Date 2/10/81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		2/10	2/10	2/10	2/10	2/10	2/10	2/11	
Time		06:30	10:30	13:00	15:00	18:00	21:30	12:30	
Stage Reading		6.45	7.91	8.75	8.35	7.90	7.31	6.43	
Discharge CFS		117	627	918	556	627	357	114	
Temperature of Water (^{o}C)		6.0	6.0	6.0	6.0	5.0	3.0	2.0	
Dissolved Oxygen (mg/1)		10.8	9.6	9.8	9.7	10.3	9.1	11.8	
pH		6.69	6.71	6.66	6.61	6.71	6.74	6.85	
Specific Conductance (umhos)		89.2	82.3	72.5	70.6	68.6	79.4	74.5	
BOD_5 (mg/1)		6.1	15.0	5.1	4.9	3.8	5.0	4.1	
COD (mg/1)		6.1	10.2	8.1	7.1	10.2	8.2	8.1	
Suspended Solids (mg/1)		46.0	93.0	105.0	45.0	38.0	23.0	7.0	
Total Kjeldal Nitrogen (mg N/1)		0.43	1.37	1.91	1.27	0.98	1.17	0.78	
Total Phosphorus (mg P/1)		0.71	0.64	0.59	0.72	0.49	0.55	0.31	
Fecal Coliform/100ml		4.2K	8.4K	10.2K	10.4K	9.4K	4.6K	2.6K	
Metals	Al (mg/1)	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/1)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/1)	1.537	1.963	1.963	1.611	1.240	0.944	0.481	
	Pb (mg/1)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/1)	0.042	0.032	0.037	0.025	0.021	0.043	0.059	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1090 Location Coleman Creek @ Asher Ave.

Event Date 2/10/81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		2/9	2/9	2/10	2/10	2/10	2/10	2/10	
Time		22:05	22:50	00:50	01:20	02:00	06:00	11:45	
Stage Reading		8'1"	7'6"	7'0"	7'4"	7'8"	7'10"	8'3"	
Discharge CFS		4	30	69	42	21	13	0	
Temperature of Water (^{o}C)		6.0	6.0	6.0	6.0	6.0	7.0	7.0	
Dissolved Oxygen (mg/l)		9.6	9.9	8.6	9.8	8.9	9.2	9.3	
pH		6.49	6.32	6.33	6.34	6.40	6.70	6.98	
Specific Conductance (umhos)		134.3	81.3	53.9	63.7	57.8	121.5	108.8	
BOD_5 (mg/l)		9.4	7.9	6.9	8.6	5.7	5.7	5.3	
COD (mg/l)		14.2	15.3	12.2	15.3	10.2	9.2	11.2	
Suspended Solids (mg/l)		39.0	125.0	265.0	123.0	178.0	22.0	15.0	
Total Kjeldal Nitrogen (mg N/l)		0.43	0.98	0.71	1.12	1.21	0.73	0.41	
Total Phosphorus (mg P/l)		0.31	0.20	0.42	0.37	0.51	0.29	0.17	
Fecal Coliform/100ml		7.9K	8.2K	9.0K	7.9K	7.5K	2.5K	3.1K	
Metals	Al (mg/l)	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/l)	<0.010	<0.016	<0.010	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/l)	1.537	2.370	3.593	2.667	2.944	0.814	0.796	
	Pb (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/l)	0.103	0.122	0.122	0.111	0.117	0.052	0.044	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1053 Location Fouche Creek @ Hwy 5

Event Date 2/28/81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		2/28	2/28	2/28	3/1	3/1	3/2	3/3	
Time		12:35	18:00	22:20	06:45	12:45	14:05	09:45	
Stage Reading		5.91	7.58	8.65	7.60	7.01	6.30	6.09	
Discharge CFS		47	524	752	535	212	95	65	
Temperature of Water (^{o}C)		14.0	13.0	12.0	11.5	11.0	12.5	12.0	
Dissolved Oxygen (mg/l)		9.2	8.9	8.6	8.5	9.8	10.6	9.2	
pH		6.92	6.88	6.56	6.74	6.50	6.84	6.46	
Specific Conductance (umhos)		99.5	81.3	77.9	82.4	71.6	89.8	104.3	
BOD_5 (mg/l)		4.9	3.3	3.0	3.3	2.3	2.2	2.1	
COD (mg/l)		75.8	90.9	37.9	25.8	33.3	34.8	24.2	
Suspended Solids (mg/l)		83.0	127.0	119.0	16.5	19.5	2.5	2.0	
Total Kjeldal Nitrogen (mg N/l)		1.68	1.61	1.70	1.14	1.05	1.19	1.12	
Total Phosphorus (mg P/l)		0.12	0.14	0.18	0.09	0.13	0.08	0.05	
Fecal Coliform/100ml		43K	50K	31K	25.8K	3.8K	500	600	
Metals	Al (mg/l)	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/l)	1.100	2.190	2.590	1.500	1.295	0.755	0.651	
	Pb (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/l)	0.029	0.073	0.051	0.068	0.043	0.041	0.029	

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Rainfall Event

Station No. AR 1063 Location Forche Creek at University Ave.

Event Date 2/28/21

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		2/28	2/28	3/1	3/1	3/1	3/2	3/3	
Time		15:30	19:30	1:30	14:00	19:30	13:45	11:00	
Stage Reading		18'5"	16'4"	15'2"	15'11	17'1"	18'5"	19'4"	
Discharge CFS		201	476	701	550	356	201	130	
Temperature of Water (^{o}C)		15.0	14.0	13.0	11.5	12.0	11.5	12.0	
Dissolved Oxygen (mg/l)		7.7	8.3	7.9	8.5	8.1	8.1	7.9	
pH		6.72	6.51	6.02	6.25	6.01	6.61	6.68	
Specific Conductance (umhos)		106.2	84.4	80.0	72.9	80.5	83.7	104.3	
BOD_5 (mg/l)		7.5	6.2	3.0	3.0	2.6	2.0	1.8	
COD (mg/l)		31.8	28.5	89.4	69.7	60.6	43.9	25.8	
Suspended Solids (mg/l)		30.0	48.5	63.5	74.0	32.5	54.0	20.0	
Total Kjeldal Nitrogen (mg N/l)		1.57	1.42	1.11	1.20	1.52	1.76	1.42	
Total Phosphorus (mg P/l)		0.35	0.22	0.23	0.23	0.12	0.25	0.09	
Fecal Coliform/100ml		110K	78K	38K	36K	17K	5.5K	6.9K	
Metals	Al (mg/l)	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Fe (mg/l)	1.385	1.695	2.924	2.580	1.990	1.675	1.015	
	Pb (mg/l)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/l)	0.110	0.141	0.125	0.095	0.078	0.083	0.045	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1073 Location Fouche Creek @ Lindsey Road

Event Date 2/28/81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		2/28	2/28	3/2	3/2	3/3	3/3	3/3	
Time		17:00	21:25	14:45	19:50	10:25	15:50	23:00	
Stage Reading		26'7"	26'4"	25'10"	26'0"	26'2"	26'5"	26'7"	
Discharge CFS		680	800	1067	972	886	755	680	
Temperature of Water (°C)		15.0	14.5	13.0	13.5	12.5	13.5	14.0	
Dissolved Oxygen (mg/l)		6.4	6.9	6.5	6.6	6.4	8.1	8.2	
pH		7.17	7.02	6.91	7.01	6.88	7.15	7.24	
Specific Conductance (umhos)		160.6	175.0	92.9	103.3	124.4	140.2	141.1	
BOD_5 (mg/l)		4.8	5.0	4.2	4.0	3.7	1.9	1.6	
COD (mg/l)		33.3	28.8	45.5	48.5	33.3	31.8	28.8	
Suspended Solids (mg/l)		57.0	82.5	36.0	62.5	25.5	5.1	14.5	
Total Kjeldal Nitrogen (mg N/l)		1.85	1.95	1.89	2.00	1.92	1.73	1.57	
Total Phosphorus (mg P/l)		1.12	0.33	0.16	0.25	0.15	0.19	0.04	
Fecal Coliform/100ml		3.3K	4.0K	4.9K	5.6K	4.5K	3.8K	3.3K	
Metals	Al (mg/l)	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/l)	<0.010	0.013	<0.010	<0.010	<0.010	<0.010	0.012	
	Fe (mg/l)	2.130	2.444	1.778	2.370	1.426	2.167	1.444	
	Pb (mg/l)	0.012	0.018	0.011	0.013	<0.010	<0.010	0.012	
	Zn (mg/l)	0.076	0.095	0.147	0.061	0.027	0.064	0.057	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1080 Location Little Fouche Creek @ 3M Company

Event Date 2/28/81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		2/28	3/1	3/2	3/2	3/3	3/3	3/3	
Time		14:25	00:40	14:25	20:30	10:10	15:38	22:30	
Stage Reading		10'2"	9'6½"	8'6"	8'10"	9'1½"	9'6"	9'11"	
Discharge CFS		80	125	210	195	155	127	95	
Temperature of Water (°C)		17.0	16.0	14.0	13.5	12.5	13.5	14.0	
Dissolved Oxygen (mg/l)		7.9	6.8	5.3	6.8	5.8	6.1	6.5	
pH		7.28	6.82	6.13	6.66	6.77	6.72	6.88	
Specific Conductance (umhos)		140.4	168.0	177.7	163.2	198.6	167.0	148.7	
BOD_5 (mg/l)		2.7	2.2	2.0	2.2	1.6	1.6	1.4	
COD (mg/l)		40.9	28.8	34.8	30.3	28.7	31.8	31.8	
Suspended Solids (mg/l)		16.5	11.5	12.0	11.5	14.5	17.0	19.0	
Total Kjeldal Nitrogen (mg N/l)		2.38	1.99	1.76	1.70	1.37	1.64	1.73	
Total Phosphorus (mg P/l)		0.81	0.09	0.09	0.09	0.08	0.06	0.06	
Fecal Coliform/100ml		200	5.0K	1.1K	3.4K	2.8K	2.9K	2.0K	
Metals	Al (mg/l)	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	
	Cr (mg/l)	0.021	0.016	0.010	0.011	0.010	0.010	0.010	
	Fe (mg/l)	1.185	1.444	1.426	0.796	1.259	1.556	1.667	
	Pb (mg/l)	0.011	<0.010	0.011	<0.010	<0.010	<0.010	<0.010	
	Zn (mg/l)	0.063	0.071	0.081	0.039	0.154	0.162	0.128	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1053 Location Fouche Creek @ Hwy 5

Event Date 3/21/81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		3/21	3/21	3/22	3/22	3/23	3/23	3/24	
Time		1450	2254	1305	1900	0740	1800	0710	
Stage Reading		5.60	6.52	6.85	6.64	6.30	6.15	6.03	
Discharge CFS		16	136	200	160	96	73	57	
Temperature of Water (^{o}C)		12.0	11.0	10.0	10.0	9.0	12.0	9.0	
Dissolved Oxygen (mg/l)		10.4	9.8	10.0	10.2	11.0	10.7	10.5	
pH		7.28	7.25	7.29	7.38	7.36	7.46	7.33	
Specific Conductance (umhos)		101.6	89.1	83.1	81.7	83.2	91.1	86.0	
BOD_5 (mg/l)		3.3	2.6	2.5	2.1	2.1	1.6	1.6	
COD (mg/l)		9.4	21.9	18.1	17.5	12.5	13.1	14.4	
Suspended Solids (mg/l)		6.5	35.0	9.0	7.0	6.0	3.0	8.0	
Total Kjeldal Nitrogen (mg N/l)		0.73	1.09	0.91	1.08	0.83	0.80	0.72	
Total Phosphorus (mg P/l)		0.21	0.39	0.28	0.27	0.16	0.19	0.20	
Fecal Coliform/100ml		550	2.4K	510	370	2.3K	230	100	
Metals (mg/l)	Al	<0.20	0.350	<0.20	<0.20	<0.20	<0.20	<0.20	
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Fe	0.472	1.250	0.639	0.514	0.486	0.333	0.417	
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Zn	0.029	0.021	0.018	0.027	0.023	0.021	0.018	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1063 Location Fouche Creek @ Univ. Ave.

Event Date 3/21/81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		3/21	3/21	3/22	3/22	3/23	3/23	3/24	
Time		1710	2337	1320	1815	0645	1715	0625	
Stage Reading		19'7"	17'8"	16'8"	16'11"	18'1"	18'9"	19'3"	
Discharge CFS		105	285	425	385	240	173	130	
Temperature of Water (^{o}C)		12.0	11.5	10.5	10.5	9.0	12.0	10.0	
Dissolved Oxygen (mg/l)		9.1	9.4	9.4	9.7	9.7	10.3	9.6	
pH		7.19	6.98	6.79	6.96	6.89	6.85	7.07	
Specific Conductance (umhos)		96.4	85.1	81.0	75.6	73.3	79.2	76.2	
BOD_5 (mg/l)		2.8	8.9	5.3	3.6	2.5	2.4	2.4	
COD (mg/l)		7.5	26.3	27.5	19.4	16.9	16.9	3.8	
Suspended Solids (mg/l)		17.0	43.0	30.0	19.0	12.0	13.0	7.0	
Total Kjeldal Nitrogen (mg N/l)		0.98	1.61	1.59	1.49	1.09	1.29	1.00	
Total Phosphorus (mg P/l)		0.28	0.49	0.55	0.16	0.31	0.35	0.23	
Fecal Coliform/100ml		250	22.0K	12.0K	6.0K	860	3.5K	430	
Metals (mg/l)	Al	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Fe	1.00	1.528	1.111	1.125	0.736	0.486	0.500	
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Zn	0.021	0.032	0.032	0.043	0.023	0.029	0.021	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1080 Location Little Fouche Creek @3M

Event Date 3/21/81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		3/21	3/22	3/23	3/24	3/24	3/25	3/26	
Time		1610	1245	0715	0645	1545	1030	1600	
Stage Reading		10'8"	9'5"	8'10"	9'1"	9'3½"	9'7"	10'4"	
Discharge CFS		47	135	185	160	145	120	70	
Temperature of Water (°C)		13.0	11.0	10.6	11.0	15.0	15.0	16.0	
Dissolved Oxygen (mg/1)		9.0	7.7	6.5	7.1	8.1	8.6	8.8	
pH		6.89	6.71	6.36	6.18	6.03	6.02	6.15	
Specific Conductance (umhos)		141.9	120.2	103.8	87.8	96.3	85.2	97.2	
BOD_5 (mg/1)		2.3	2.8	3.3	2.5	2.6	3.2	2.3	
COD (mg/1)		16.9	15.6	18.8	14.4	15.0	24.4	10.6	
Suspended Solids (mg/1)		13.0	10.0	12.0	9.0	9.0	8.5	9.0	
Total Kjeldal Nitrogen (mg N/1)		1.06	0.99	0.99	1.19	1.19	1.27	1.03	
Total Phosphorus (mg P/1)		0.31	0.45	0.40	0.37	0.21	0.33	0.19	
Fecal Coliform/100ml		< 100	< 100	450	230	< 100	< 100	30	
Metals (mg/1)	Al	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Fe	1.250	1.583	1.292	0.917	0.889	0.806	0.903	
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Zn	0.027	0.041	0.031	0.032	0.039	0.038	0.039	

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1090 Location Coleman Creek @ Asher

Event Date 4-18-81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		4-18	4-18	4-18	4-18	4-18	4-19	4-19	
Time		22:15	22:45	23:10	23:30	23:50	00:10	00:30	
Stage Reading		8'4"	7'4"	6'7"	7'2"	7'5"	8'1"	8'4"	
Discharge CFS		5	47	115	55	40	10	5	
Temperature of Water (^{o}C)		15.0	16.0	16.0	16.0	16.0	16.0	16.0	
Dissolved Oxygen (mg/l)		5.1	5.6	5.6	5.5	6.6	6.0	6.9	
pH		6.19	6.47	6.95	6.24	6.67	6.75	6.54	
Specific Conductance (umhos)		107.1	93.2	85.7	60.5	54.2	75.6	74.1	
BOD_5 (mg/l)		27	24	21	10.5	8.5	9.0	9.5	
COD (mg/l)		79.1	75.3	74.6	67.5	57.3	55.7	57.6	
Suspended Solids (mg/l)		947	733	573	274	265	327	259	
Total Kjeldal Nitrogen (mg N/l)		1.85	1.67	1.79	1.52	0.98	1.21	0.89	
Total Phosphorus (mg P/l)		0.43	0.59	0.31	0.33	0.21	0.29	0.35	
Fecal Coliform/100ml		44K	61K	41K	32K	28K	12K	6.5K	
Metals (mg/l)	Al	1.980	2.100	1.900	0.980	0.350	<0.20	<0.20	
	Cr	0.080	0.075	0.025	<0.01	<0.01	<0.01	<0.01	
	Fe	17.917	15.417	14.306	5.139	3.750	5.889	4.167	
	Pb	0.025	0.045	0.030	0.035	0.015	<0.01	<0.01	
	Zn	0.286	0.252	0.239	0.139	0.139	0.139	0.131	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1020 Location Rock Creek @ Markham

Event Date 5-17-81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		5-17	5-17	5-17	5-17	5-17	5-17	5-17	
Time		01:45	04:30	06:50	10:00	12:05	15:40	19:30	
Stage Reading		11'0"	10'2"	9'1"	11'0"	12'4"	12'9"	13'5"	
Discharge CFS		1150	1900	3175	1150	340	185	175	
Temperature of Water (^{o}C)		18	18	18	19	19	20	20	
Dissolved Oxygen (mg/1)		8.1	7.7	8.4	8.4	8.5	7.5	7.4	
pH		6.16	5.95	5.65	6.21	6.10	6.09	6.15	
Specific Conductance (umhos)		27.2	28.1	38.2	29.3	26.9	26.3	25.2	
BOD_5 (mg/1)		6.1	5.3	7.3	3.9	4.2	1.4	1.6	
COD (mg/1)		-	-	-	-	-	-	-	91.3
Suspended Solids (mg/1)		-	-	-	-	-	-	-	232
Total Kjeldal Nitrogen (mg N/1)		-	-	-	-	-	-	-	1.73
Total Phosphorus (mg P/1)		-	-	-	-	-	-	-	0.31
Fecal Coliform/100ml		10K	12K	8.0K	7.2K	3.6K	4.8K	2.2K	
Metals (mg/1)	Al			12.600					13.400
	Cr			0.024					0.026
	Fe			19.100					21.100
	Pb			0.156					0.165
	Zn			0.130					0.130

(24) NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1040 Location Rock Creek @ 36th St

Event Date 5-17-81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		5-17	5-17	5-17	5-17	5-17	5-17	5-17	
Time		00:30	00:55	03:15	06:00	09:45	12:45	16:25	
Stage Reading		3.14	4.81	11.05	9.40	6.65	4.94	3.98	
Discharge CFS		33	395	6100	3800	1325	450	170	
Temperature of Water (^{o}C)		19.0	19.0	19.0	20.0	20.0	20.0	20.0	
Dissolved Oxygen (mg/l)		8.0	5.6	8.3	8.1	7.9	8.5	6.9	
pH		6.41	6.29	6.34	6.39	6.47	6.65	6.59	
Specific Conductance (umhos)		48.2	69.2	78.2	71.2	59.2	45.9	35.2	
BOD_5 (mg/l)		7.9	5.4	8.2	5.0	3.1	3.1	1.0	
COD (mg/l)		-	-	-	-	-	-	-	65.2
Suspended Solids (mg/l)		-	-	-	-	-	-	-	535
Total Kjeldal Nitrogen (mg N/l)		-	-	-	-	-	-	-	1.54
Total Phosphorus (mg P/l)		-	-	-	-	-	-	-	0.41
Fecal Coliform/100ml		22K	48K	160K	63K	46K	23K	10K	
Metals (mg/l)	Al			27.800					14.200
	Cr			0.061					0.034
	Fe			46.300					24.700
	Pb			0.340					0.282
	Zn			0.243					0.238

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1053 Location Fouche Creek @ Hwy 5

Event Date 5-17-81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		5-17	5-17	5-17	5-17	5-18	5-18	5-19	
Time		02:10	04:50	12:35	18:55	09:10	22:00	00:05	
Stage Reading		6.28	7.28	9.96	8.54	7.65	6.96	6.06	
Discharge CFS		94	330	1700	780	430	240	60	
Temperature of Water (^{o}C)		18	18	19	19	18	18	18	
Dissolved Oxygen (mg/l)		8.5	8.0	6.2	6.8	8.1	8.3	7.8	
pH		6.75	6.72	6.61	6.65	6.66	6.75	6.71	
Specific Conductance (umhos)		59.2	61.8	75.3	69.4	48.1	53.5	50.5	
BOD_5 (mg/l)		2.6	3.8	1.6	1.0	2.3	1.6	1.5	
COD (mg/l)		-	-	-	-	-	-	-	29.7
Suspended Solids (mg/l)		-	-	-	-	-	-	-	91.0
Total Kjeldal Nitrogen (mg N/l)		-	-	-	-	-	-	-	0.83
Total Phosphorus (mg P/l)		-	-	-	-	-	-	-	0.29
Fecal Coliform/100ml		9.0K	21K	23K	16K	9.0K	6.8K	2.6K	
Metals (mg/l)	Al			4.381					0.491
	Cr			0.010					0.017
	Fe			4.170					0.588
	Pb			0.084					0.040
	Zn			0.074					0.077

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1063 Location Fouche Creek @ University Ave.

Event Date 5-17-81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		5-17	5-17	5-17	5-17	5-18	5-18	5-19	
Time		01:10	02:45	3:30	13:15	09:15	15:05	00:25	
Stage Reading		20'2"	13'8"	12'8"	13'8"	17'1"	17'11"	18'6"	
Discharge CFS		80	1075	1475	1075	360	250	110	
Temperature of Water (°C)		18	19	19	20	20	19	19	
Dissolved Oxygen (mg/l)		6.3	7.9	7.9	7.4	7.7	7.4	7.5	
pH		6.48	6.37	6.28	6.47	6.58	6.63	6.69	
Specific Conductance (umhos)		53.2	76.5	89.9	69.8	58.2	51.9	47.5	
BOD_5 (mg/l)		1.0	4.4	1.8	4.0	5.2	2.5	3.3	
COD (mg/l)		-	-	-	-	-	-	-	40.6
Suspended Solids (mg/l)		-	-	-	-	-	-	-	394
Total Kjeldal Nitrogen (mg N/l)		-	-	-	-	-	-	-	1.07
Total Phosphorus (mg P/l)		-	-	-	-	-	-	-	0.38
Fecal Coliform/100ml		46K	110K	120K	69K	21K	18K	8.5K	
Metals (mg/l)	Al			7.055					4.676
	Cr			0.018					0.007
	Fe			11.700					5.755
	Pb			0.131					0.066
	Zn			0.116					0.082

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1073 Location Fouche Creek @ Lindsey Rd.

Event Date 5-17-81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		5-17	5-17	5-18	5-19	5-20	5-20	5-21	
Time		05:25	13:35	12:10	13:00	13:10	22:50	11:00	
Stage Reading		26'1"	25'3"	24'8"	25'4"	26'2"	26'8"	26'10"	
Discharge CFS		920	1390	1700	1330	860	620	572	
Temperature of Water (^{o}C)		19	19	20	20	19	19	20	
Dissolved Oxygen (mg/l)		7.2	7.9	5.6	7.1	8.1	8.0	7.9	
pH		7.14	6.85	6.98	6.65	6.58	6.61	6.68	
Specific Conductance (umhos)		73.1	76.9	95.2	81.8	58.1	44.5	48.2	
BOD_5 (mg/l)		7.0	3.8	2.6	5.0	1.9	2.1	1.8	
COD (mg/l)		-	-	-	-	-	-	-	52.9
Suspended Solids (mg/l)		-	-	-	-	-	-	-	201
Total Kjeldal Nitrogen (mg N/l)		-	-	-	-	-	-	-	0.94
Total Phosphorus (mg P/l)		-	-	-	-	-	-	-	0.34
Fecal Coliform/100ml		18K	28K	16K	8.7K	8.2K	5.2K	6.3K	
Metals (mg/l)	Al		3.138						6.910
	Cr		0.009						0.012
	Fe		3.753						7.620
	Pb		0.085						0.100
	Zn		0.084						0.164

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1010 Location Grassy Flats @ Reservoir Rd.

Event Date 5-25-81

Sample Number	1	2	3	4	5	6	7	Composite
Date Sampled	5-25	5-25	5-25	5-25	5-25	5-26	5-26	
Time	18:00	18:15	18:30	18:50	22:35	00:40	13:20	
Stage Reading	4.29	5.37	7.19	6.50	5.90	5.20	4.47	
Discharge CFS	7	69	430	250	150	55	13	
Temperature of Water (^{o}C)	20.0	20.0	20.0	21.0	20.0	20.0	20.0	
Dissolved Oxygen (mg/l)	4.4	8.0	7.9	6.8	7.5	7.9	8.2	
pH	6.57	6.63	6.81	6.69	6.74	6.85	7.08	
Specific Conductance (umhos)	52.9	56.8	50.4	51.7	72.2	87.7	100.8	
BOD_5 (mg/l)	4.3	7.8	5.0	6.7	4.8	4.6	1.4	
COD (mg/l)	-	-	-	-	-	-	-	42.7
Suspended Solids (mg/l)	-	-	-	-	-	-	-	345
Total Kjeldal Nitrogen (mg N/l)	-	-	-	-	-	-	-	0.99
Total Phosphorus (mg P/l)	-	-	-	-	-	-	-	0.43
Fecal Coliform/100ml	64K	94K	68K	74K	32K	9.6K	1.9K	
Metals Al								0.450
Metals Cr								0.015
Metals Fe								6.806
Metals Pb								<0.010
Metals Zn								0.050

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1020 Location Rock Creek @ Markham

Event Date 5-25-81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		5-25	5-25	5-25	5-26	5-26	5-26	5-26	
Time		20:00	21:00	22:55	00:50	09:45	13:40	19:40	
Stage Reading		13'0"	12'1½"	11'4"	11'8"	12'6"	12'10"	13'1"	
Discharge CFS		105	445	950	725	280	145	80	
Temperature of Water (°C)		21.0	20.0	21.0	22.0	21.0	21.0	21.0	
Dissolved Oxygen (mg/1)		10.2	9.3	8.0	7.9	8.1	7.8	8.2	
pH		6.34	6.50	5.95	6.15	6.12	6.06	6.14	
Specific Conductance (umhos)		42.6	47.2	30.5	28.6	34.9	39.2	36.5	
BOD_5 (mg/1)		7.8	8.3	5.1	3.7	1.7	1.9	1.4	
COD (mg/1)		26.1	41.3	39.1	44.2	26.8	22.5	15.2	
Suspended Solids (mg/1)		317	387	92.5	32.0	9.0	9.5	10.0	
Total Kjeldal Nitrogen (mg N/1)		1.07	1.13	0.75	0.62	0.32	0.49	0.19	
Total Phosphorus (mg P/1)		0.41	0.46	0.39	0.21	0.31	0.25	0.17	
Fecal Coliform/100ml		6.2K	31K	22K	6.7K	1020	3.3K	580	
Metals (mg/1)	Al	0.395	0.585	<0.20	<0.20	<0.20	<0.20	<0.20	
	Cr	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Fe	4.722	5.277	1.528	1.125	0.861	0.583	0.583	
	Pb	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Zn	0.046	0.064	0.025	0.025	0.089	0.029	0.030	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1073 Location Fouche Creek @ Lindsey Rd.

Event Date 5-25-81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		5-25	5-26	5-26	5-27	5-27	5-28	5-28	
Time		21:40	10:40	20:45	11:25	21:20	12:00	17:10	
Stage Reading		26'8"	26'4"	26'2"	26'3"	26'5"	26'8"	26'10"	
Discharge CFS		600	800	860	830	760	600	540	
Temperature of Water (^{o}C)		23.0	22.0	22.0	23.0	23.0	23.0	22.0	
Dissolved Oxygen (mg/l)		4.7	8.4	7.4	7.6	7.8	7.2	7.5	7.3
pH		6.34	6.66	6.46	6.49	6.53	6.60	6.62	6.53
Specific Conductance (umhos)		126.9	105.3	92.4	76.9	74.3	80.4	83.2	90.8
BOD_5 (mg/l)		4.6	6.4	6.3	6.2	6.3	6.0	6.3	6.1
COD (mg/l)		-	-	-	-	-	-	-	38.9
Suspended Solids (mg/l)		-	-	-	-	-	-	-	84.0
Total Kjeldal Nitrogen (mg N/l)		-	-	-	-	-	-	-	0.75
Total Phosphorus (mg P/l)		-	-	-	-	-	-	-	0.37
Fecal Coliform/100ml		20K	14K	55K	13.2K	6.4K	5.8K	3.5K	18.4K
Metals (mg/l)	Al								1.980
	Cr								<0.010
	Fe								2.514
	Pb								0.050
	Zn								0.068

(31)

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1080 Location Little Fouche Cr. @ 3M Company

Event Date 5-25-81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		5-25	5-26	5-26	5-27	5-27	5-28	5-28	
Time		21:55	11:00	20:25	11:05	21:40	11:40	16:55	
Stage Reading		10'9"	10'3"	9'7"	9'9"	9'11"	10'1"	10'8"	
Discharge CFS		45	75	120	107	95	75	50	
Temperature of Water (^{o}C)		22.0	23.0	23.0	23.0	24.0	24.0	23.0	
Dissolved Oxygen (mg/l)		2.5	1.8	2.6	2.1	2.2	2.1	2.8	
pH		6.75	6.37	6.34	6.40	6.29	6.33	6.30	
Specific Conductance (umhos)		117.4	116.2	117.4	113.5	113.5	121.3	122.6	
BOD_5 (mg/l)		2.4	1.7	0.6	1.9	2.1	2.0	1.2	
COD (mg/l)		-	-	-	-	-	-	-	25.8
Suspended Solids (mg/l)		-	-	-	-	-	-	-	12.0
Total Kjeldal Nitrogen (mg N/l)		-	-	-	-	-	-	-	0.81
Total Phosphorus (mg P/l)		-	-	-	-	-	-	-	0.41
Fecal Coliform/100ml		570	270	590	180	120	140	100	
Metals (mg/l)	Al								<0.20
	Cr								<0.01
	Fe								2.292
	Pb								<0.01
	Zn								0.089

(32)

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. Ar 1080 Location Little Fouche Creek @ 3M Company

Event Date 6/3/81

Sample Number	1	2	3	4	5	6	7	Composite
Date Sampled	6/3	6/3	6/3	6/3	6/4	6/4	6/5	
Time	10:15	10:55	14:00	21:00	09:40	16:40	10:30	
Stage Reading	9'2"	8'7"	8'1"	7'11"	7'6"	7'10"	8'1"	
Discharge CFS	153	203	250	260	300	267	250	
Temperature of Water (^{o}C)	23.0	23.0	24.0	24.0	24.0	26.0	24.0	
Dissolved Oxygen (mg/l)	2.5	3.0	1.8	2.3	2.9	1.8	1.7	
pH	6.11	5.96	5.96	5.89	5.97	5.87	5.82	
Specific Conductance (umhos)	70.6	63.0	70.0	71.3	66.7	64.7	59.4	
BOD_5 (mg/l)	2.4	2.9	1.7	2.1	2.8	1.3	1.3	
COD (mg/l)								
Suspended Solids (mg/l)								
Total Kjeldal Nitrogen (mg N/l)								
Total Phosphorus (mg P/l)								
Fecal Coliform/100ml	590	1.2K	4.0K	2.0K	12.0K	6.5K	980	
Metals								

(33) NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1020 Location Rock Creek @ Markham

Event Date 6/30/81

Sample Number	1	2	3	4	5	6	7	Composite
Date Sampled	6/30	6/30	6/30	7/1	7/1	7/1	7/2	
Time	21:00	22:40	23:45	09:45	13:30	17:30	09:30	
Stage Reading	12'7"	13'0"	12'7"	12'0"	13'0"	13'1"	13'5"	
Discharge CFS	245	100	245	155	100	85	18	
Temperature of Water (^{o}C)	23	23	23	23	23	23	23	
Dissolved Oxygen (mg/l)	7.3	7.5	7.2	7.1	6.8	6.7	6.7	
pH	5.61	5.75	6.37	5.85	5.82	5.84	6.36	
Specific Conductance (umhos)	31.4	47.9	88.0	32.5	36.3	35.2	39.1	
BOD_5 (mg/l)	x	x	x	x	x	x	x	
COD (mg/l).	46.0	44.7	49.4	36.5	32.5	32.5	24.4	
Suspended Solids (mg/l)	818	228	167	29.0	14.0	14.0	15.0	
Total Kjeldal Nitrogen (mg N/l)	x	x	x	x	x	x	x	
Total Phosphorus (mg P/l)	x	x	x	x	x	x	x	
Fecal Coliform/100ml	x	x	x	x	x	x	x	
Metals								

34 ...TIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1040 Location Rock Creek @ 36th

Event Date 6/30/81

Sample Number	1	2	3	4	5	6	7	Composite
Date Sampled	6/30	6/30	6/30	7/1	7/1	7/1	7/1	
Time	20:00	20:30	22:15	00:25	09:50	13:50	18:40	
Stage Reading	8.41	9.90	5.65	5.10	4.24	3.83	3.57	
Discharge CFS	2720	4500	770	500	228	133	88	
Temperature of Water (^{o}C)	23	23	23	23	23	23	23	
Dissolved Oxygen (mg/1)	8.4	7.1	7.4	7.7	7.3	7.2	7.1	
pH	5.79	5.80	5.85	6.08	6.07	6.42	6.48	
Specific Conductance (umhos)	52.8	48.4	51.2	59.4	49.5	56.1	62.7	
BOD_5 (mg/1)	x	x	x	x	x	x	x	
COD (mg/1)	121.2	79.9	52.1	35.2	39.3	31.1	27.7	
Suspended Solids (mg/1)	1558	1506	514	196	18.0	31.5	20.0	
Total Kjeldal Nitrogen (mg N/1)	x	x	x	x	x	x	x	
Total Phosphorus (mg P/1)	x	x	x	x	x	x	x	
Fecal Coliform/100ml	x	x	x	x	x	x	x	
Metals								

NATIONAL URBAN RUNOFF PROGRAM

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Rainfall Event

Station No. AR 1210 Location Rock Creek @ Shackleford Rd.

Event Date 6/30/81

Sample Number	1	2	3	4	5	6	7	Composite
Date Sampled	6/30	6/30	6/30	7/1	7/1	7/1	7/2	
Time	20:50	22:30	00:05	09:25	13:35	17:40	09:45	
Stage Reading	11'2½"	11'6"	11'3"	11'6"	11'8"	11'9"	11'11½"	
Discharge CFS	165	80	150	80	35	30	10	
Temperature of Water (°C)	23	23	23	23	23	23	23	
Dissolved Oxygen (mg/l)	7.7	7.7	7.4	6.8	7.1	6.9	7.2	
pH	5.53	5.50	5.98	5.86	5.96	6.04	6.41	
Specific Conductance (umhos)	36.3	40.7	52.3	30.8	34.1	39.6	39.6	
BOD_5 (mg/l)	x	x	x	x	x	x	x	
COD (mg/l)	44.7	32.5	39.3	43.9	39.3	35.2	26.4	
Suspended Solids (mg/l)	946	296	410	20.0	22.5	7.0	10.5	
Total Kjeldal Nitrogen (mg N/l)	x	x	x	x	x	x	x	
Total Phosphorus (mg P/l)	x	x	x	x	x	x	x	
Fecal Coliform/100ml	x	x	x	x	x	x	x	
Metals								

NATIONAL URBAN RUNOFF PROGRAM

(31)

Rainfall Event

Station No. AR1022 Location Coleman CK, West branch at War Memorial

Event Date 10/23/81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		10/23	10/23	10/23	10/23	10/23	10/23	10/23	
Time		10:35	10:58	11:25	12:53	14:07	15:45	18:06	
Stage Reading		12;8"	12'6"	12'4"	12'4"	12'6"	12'7"	12'8"	
Discharge CFS		5	15	30	30	15	10	5	
Temperature of Water (°C)		17	17	17	17	17	17	17	
Dissolved Oxygen (mg/l)		8.5	9.0	8.7	8.9	8.8	9.9	9.8	
pH		6.57	6.52	6.42	6.53	6.47	6.63	6.74	
Specific Conductance (umhos)		152	65.0	57.5	43.0	42.0	51.5	52.5	
BOD_5 (mg/l)		7.5	8.9	6.7	4.5	4.3	4.5	3.2	
Dis. Solids (mg/l)		107.5	58.0	54.5	54.0	41.0	42.5	47.0	
Suspended Solids (mg/l)		89.5	262.0	100.5	51.0	32.0	22.5	16.0	
Total Kjeldal Nitrogen (mg N/l)		2.57	1.85	1.11	1.20	0.79	1.13	0.98	
Total Phosphorus (mg P/l)		0.60	0.49	0.28	0.28	0.35	0.29	0.27	
Fecal Coliform/100ml		81K	65K	58K	25K	21K	15K	9.6K	
Metals mg/l	Cd	<0.01	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	
	Cu	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Fe	4.389	6.182	1.722	1.844	2.256	1.21	1.556	
	Zn	0.071	0.056	0.037	0.032	0.038	0.035	0.084	

NATIONAL URBAN RUNOFF PROGRAM

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Rainfall Event

Station No. AR1033 Location Coleman CK, east branch at War Memorial

Event Date 10/23/81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		10/23	10/23	10/23	10/23	10/23	10/23	10/23	
Time		10:30	10:53	11:15	12:50	14:00	15:40	18:00	
Stage Reading		4'8"	4'6"	4'5"	4'6½"	4'8"	4'8"	4'10"	
Discharge CFS		190	220	233	212	190	190	100	
Temperature of Water (°C)		17	17	17	17	17	17	17	
Dissolved Oxygen (mg/l)		8.2	8.7	8.7	9.6	8.6	9.2	8.6	
pH		6.75	6.66	6.58	6.52	6.38	6.76	6.59	
Specific Conductance (umhos)		48.0	47.5	43.0	48.0	57.0	43.5	78.5	
BOD_5 (mg/l)		7.2	6.3	5.4	5.5	7.6	5.9	2.9	
Dis. Solids (mg/l)		61.0	39.5	43.0	46.3	69.6	50.0	80.5	
Suspended Solids (mg/l)		105.0	51.5	35.0	33.7	27.4	25.0	24.5	
Total Kjeldal Nitrogen (mg N/l)		1.69	1.19	1.13	1.40	1.43	1.29	0.98	
Total Phosphorus (mg P/l)		0.46	0.36	0.43	0.41	0.25	0.34	0.39	
Fecal Coliform/100ml		52K	121K	65K	38K	24K	13K	9.6K	
Metals mg/l	Cd	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.015	0.010	0.01	0.015	<0.01	<0.010	<0.010	
	Fe	7.478	4.389	2.556	2.056	1.53	1.310	1.350	
	Zn	0.030	0.047	0.079	0.027	0.02	0.038	0.037	

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1240 Location Coleman CK. Downstream of BMP at War Memorial Park

Event Date 10/23/81

Sample Number	1	2	3	4	5	6	7	Composite
Date Sampled	10/23	10/23	10/23	10/23	10/23	10/23	10/23	
Time	10:45	11:05	11:32	12:59	14:15	15:52	18:12	
Stage Reading	7'7"	7'4"	7'2"	7'1"	7'4"	7'5"	7'7"	
Discharge CFS	120	160	170	193	160	145	120	
Temperature of Water (°C)	17.5	17	17	17	17	17	17	
Dissolved Oxygen (mg/l)	8.0	8.7	8.8	9.8	9.3	9.1	9.5	
pH	6.96	6.82	6.71	6.86	6.75	6.71	6.79	
Specific Conductance (umhos)	132	78.0	96.0	53.2	40.0	37.5	55.0	
BOD_5 (mg/l)	6.3	6.6	6.4	7.8	5.1	4.5	3.5	
Dis. Solids (mg/l)	90.0	46.5	63.5	35.5	20.0	39.5	46.5	
Suspended Solids (mg/l)	41.0	83.5	54.5	82.5	61.0	34.5	19.5	
Total Kjeldal Nitrogen (mg N/l)	1.08	1.14	1.25	1.09	0.98	0.88	1.09	
Total Phosphorus (mg P/l)	0.24	0.35	0.26	0.37	0.30	0.38	0.28	
Fecal Coliform/100ml	25K	41K	51K	26K	15K	15K	15K	
Metals mg/l Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cu	<0.01	<0.010	0.011	0.016	0.01	<0.010	0.020	
Fe	2.611	3.120	2.600	2.911	3.11	2.525	1.489	
Zn	0.040	0.034	0.050	0.071	0.071	0.063	0.045	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1022 Location Coleman Creek (leftbranch)

Event Date 11/22/81

Sample Number	1	2	3	4	5	6	7	Composite
Date Sampled	11/22	11/22	11/22	11/22	11/22	11/22	11/22	
Time	14:40	15:20	15:35	15:45	15:55	16:15	16:55	
Stage Reading	11'11"	11'4"	11'2"	11'8"	11'9"	11'10"	12'0"	
Discharge CFS	63	145	176	97	85	73	53	
Temperature of Water (°C)	15.0	15.0	15.0	14.0	14.0	14.0	14.0	
Dissolved Oxygen (mg/l)	9.1	8.2	8.6	8.4	8.5	8.8	8.9	
pH	6.81	6.38	6.41	6.39	6.41	6.43	6.49	
Specific Conductance (umhos)	110.7	66.5	60.0	69.3	71.2	64.8	61.9	
BOD_5 (mg/l)	5.7	6.9	9.9	8.6	7.9	6.4	4.7	
Suspended Solids (mg/l)	138	654	372	206	148	128	98	
Total Kjeldal Nitrogen (mg N/l)	1.17	3.76	2.33	2.47	2.01	1.62	1.51	
Total Phosphorus (mg P/l)	0.46	2.02	0.86	1.05	0.95	0.59	0.41	
Fecal Coliform/100ml	16K	23K	39K	21K	16K	15K	12K	
Metals mg/l Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cu	0.026	0.031	0.033	0.036	0.025	0.034	0.012	
Fe	5.800	7.911	7.611	7.167	6.521	5.434	3.251	
Zn	0.133	0.144	0.121	0.075	0.070	0.041	0.034	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. Ar1033 Location Coleman Creek (right branch)

Event Date 11/22/81

Sample Number	1	2	3	4	5	6	7	Composite
Date Sampled	11/22	11/22	11/22	11/22	11/22	11/22	11/24	
Time	14:10	14:30	15:10	15:30	15:50	16:00	16:35	
Stage Reading	4'9"	4'6"	4'1"	4'3"	4'5½"	4'6½"	4'9"	
Discharge CFS	163	220	345	280	226	212	163	
Temperature of Water (°C)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	
Dissolved Oxygen (mg/l)	8.2	8.0	7.9	8.4	8.2	8.0	8.1	
pH	6.94	6.85	6.74	6.46	6.50	6.41	6.43	
Specific Conductance (umhos)	121.5	118.4	73.0	80.3	85.9	91.8	107.9	
BOD_5 (mg/l)	8.9	9.5	12.8	8.6	7.1	5.7	6.1	
Suspended Solids (mg/l)	217	336	630	290	159	31.0	17.0	
Total Kjeldal Nitrogen (mg N/l)	2.09	2.48	3.72	2.52	2.27	1.97	0.87	
Total Phosphorus (mg P/l)	0.47	0.52	0.78	1.29	0.80	0.47	0.21	
Fecal Coliform/100ml	41K	52K	69K	48K	41K	27K	13K	
Metals mg/l Cd	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cu	0.012	0.018	0.029	0.033	0.034	0.030	0.010	
Fe	4.850	6.922	8.311	7.100	5.878	3.922	1.620	
Zn	0.161	0.223	0.261	0.150	0.071	0.107	0.067	

(41) NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1240 Location Coleman Creek (downstream)

Event Date 11/22/81

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		11/22	11/22	11/22	11/22	11/22	11/22	11/22	
Time		14:50	15:00	15:20	15:40	16:00	16:25	17:35	
Stage Reading		8'4½	7'2"	6'3"	6'7"	6'8"	7'½"	8'0"	
Discharge CFS		51	170	370	270	155	185	85	
Temperature of Water (°C)		15.0	15.0	15.0	15.0	15.0	15.0	15.0	
Dissolved Oxygen (mg/l)		7.6	8.0	8.6	9.3	9.3	8.8	8.9	
pH		6.69	6.55	6.44	6.41	6.53	6.38	6.43	
Specific Conductance (umhos)		103.9	105.5	102.5	91.4	82.9	75.6	64.5	
BOD_5 (mg/l)		7.4	9.5	10.5	8.5	6.3	6.1	4.6	
Suspended Solids (mg/l)		115	175	334	337	331	282	117	
Total Kjeldal Nitrogen (mg N/l)		1.44	1.91	2.43	2.03	3.17	1.58	1.09	
Total Phosphorus (mg P/l)		0.19	0.53	1.79	0.75	0.62	0.72	0.53	
Fecal Coliform/100ml		31K	52K	61K	47K	28K	19K	12K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.025	<0.010	<0.010	<0.010	0.012	0.018	<0.010	
	Fe	5.389	6.750	7.667	7.878	7.656	7.422	5.051	
	Zn	0.066	0.097	0.106	0.112	0.110	0.097	0.071	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1022 Location Coleman Creek (leftbranch)

Event Date 1/2/82

Sample Number	1	2	3	4	5	6	7	Composite
Date Sampled	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
Time	12:35	13:10	13:40	14:00	15:05	15:35	16:30	
Stage Reading	12'0"	11'8"	11'2"	11'11"	12'6"	12'7"	12'8"	
Discharge CFS	53	97	176	63	10	5	0	
Temperature of Water (°C)	8.0	8.0	8.0	8.0	7.0	7.5	8.0	
Dissolved Oxygen (ug/l)	11.3	11.1	11.7	11.2	10.9	10.6	10.9	
pH	6.05	6.17	5.92	6.47	6.18	6.14	6.18	
Specific Conductance (umhos)	61.7	54.5	45.4	40.3	47.9	56.7	64.3	
BOD_5 (mg/l)	10.2	11.9	11.4	11.0	6.9	5.8	5.4	
Suspended Solids (mg/l)	209	295	382	230	55	38	18	
Total Kjeldal Nitrogen (mg N/l)	1.67	1.97	2.33	1.93	1.10	0.87	0.80	
Total Phosphorus (mg P/l)	0.79	0.87	1.03	1.48	0.47	0.31	0.25	
Fecal Coliform/100ml	12.0K	27K	48K	31K	28K	15K	8.1K	
Metals mg/l Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cu	<0.010	<0.010	0.015	0.013	<0.010	<0.010	<0.010	
Fe	5.012	6.123	7.334	5.511	1.722	1.322	0.545	
Zn	0.025	0.037	0.090	0.073	<0.010	0.011	<0.010	

NATIONAL URBAN RUNOFF PROGRAM

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Rainfall Event

Station No. Ar1033 Location Coleman Creek (right branch)

Event Date 1/2/82

Sample Number	1	2	3	4	5	6	7	Composite
Date Sampled	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
Time	12:30	13:00	13:35	13:55	15:00	15:40	16:40	
Stage Reading	4'6"	4'4"	4'2"	4'6½"	4'9"	4'9½"	4'10"	
Discharge CFS	220	250	310	212	155	150	100	
Temperature of Water (°C)	6.0	6.0	6.5	7.0	8.0	8.5	9.0	
Dissolved Oxygen (mg/l)	10.1	10.5	10.8	11.2	12.7	10.3	10.3	
pH	6.51	6.43	6.49	6.18	6.13	6.55	5.98	
Specific Conductance (umhos)	79.5	64.5	40.3	52.9	71.8	93.2	85.7	
BOD_5 (mg/l)	9.2	10.5	8.8	8.4	11.4	7.6	7.5	
Suspended Solids (mg/l)	98	153	176	90	38	33	17	
Total Kjeldal Nitrogen (mg N/l)	1.15	1.09	0.93	1.45	1.26	1.40	1.0	
Total Phosphorus (mg P/l)	0.61	0.89	0.66	0.35	0.27	0.44	.44	
Fecal Coliform/100ml	31K	58K	43K	21K	19K	9.8K	6.5K	
Metals mg/l Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cu	<0.010	<0.010	<0.01	0.019	0.020	0.015	0.014	
Fe	1.353	2.010	2.878	2.700	2.222	2.667	1.034	
Zn	0.090	0.078	0.118	0.059	0.065	0.054	0.052	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1240 Location Coleman Creek (downstream)

Event Date 1/2/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
Time		12:45	13:20	13:45	14:05	15:10	15:50	16:45	
Stage Reading		7'1"	6'10"	6'7"	7'0"	7'7"	7'9"	7'11"	
Discharge CFS		180	220	275	193	120	105	90	
Temperature of Water (°C)		9.0	9.0	9.0	9.0	8.0	7.0	7.0	
Dissolved Oxygen (ug/l)		11.3	11.2	11.5	11.5	11.5	11.5	11.4	
pH		6.13	6.25	6.07	6.42	6.59	6.09	6.16	
Specific Conductance (umhos)		50.5	61.2	68.0	50.4	50.4	46.6	60.5	
BOD_5 (mg/l)		12.1	15.5	11.3	11.2	10.7	10.2	10.5	
Suspended Solids (mg/l)		115	275	283	268	115	97	78	
Total Kjeldal Nitrogen (mg N/l)		1.78	2.19	2.42	1.89	1.45	1.22	1.16	
Total Phosphorus (mg P/l)		0.57	0.78	0.67	0.70	0.34	0.44	0.43	
Fecal Coliform/100ml		17K	31K	35K	20K	19K	12K	7.9K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.014	0.016	0.018	0.026	0.018	0.013	0.015	
	Fe	3.579	5.065	5.156	6.199	3.022	2.756	2.611	
	Zn	0.074	0.087	0.107	0.074	0.054	0.036	0.054	

NATIONAL URBAN RUNOFF PROGRAM

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Rainfall Event

Station No. Ar1020 Location Rock Creek @ West Markham

Event Date 1/22/82

* versar special metals

Sample Number		1	2	3*	4	5	6	7	Composite
Date Sampled		1/22	1/22	1/22	1/22	1/22	1/23	1/23	
Time		15:45	17:22	18:35	21:50	23:45	00:50	12:00	
Stage Reading		13'4"	12'11"	12'7	12'9"	12'10	12'11	13'4"	
Discharge CFS		55	125	245	180	155	125	25	
Temperature of Water (°C)		5.5	6.0	6.0	6.0	6.0	7.0	8.0	
Dissolved Oxygen (mg/l)		11.6	10.0	10.3	11.1	11.3	11.2	11.3	
pH		6.57	6.13	6.27	6.30	6.56	6.43	6.33	
Specific Conductance (umhos)		64.4	59.4	56.4	66.0	54.0	61.2	53.3	
BOD_5 (mg/l)		4.2	4.2	3.0	5.1	4.1	2.8	1.9	
Suspended Solids (mg/l)		8.5	631.4	258	173.3	85.0	95.0	100	
Total Kjeldal Nitrogen (mg N/l)		0.85	1.51	1.06	1.52	0.68	0.65	0.76	
Total Phosphorus (mg P/l)		0.10	0.26	0.20	0.54	0.22	0.19	0.09	
Fecal Coliform/100ml		1.4K	1.0K	1.5K	4.5K	1.5K	1.2K	1.0K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.030	0.035	0.030	0.020	0.015	0.02	0.015	
	Fe	3.000	19.46	14.60	10.054	7.703	3.703	3.621	
	Zn	0.110	0.170	0.200	0.103	0.066	0.070	0.060	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1040 Location Rock Creek @ 36th Street

Event Date 1/22/82

* Versar special metals

Sample Number		1	2	3	4*	5	6	7	Composite
Date Sampled		1/22	1/22	1/22	1/22	1/22	1/22	1/22	
Time		16:25	16:50	17:50	21:00	23:00	01:35	12:22	
Stage Reading		3.42	3.62	5.13	4.78	4.42	4.10	3.58	
Discharge CFS		70	100	525	385	275	190	85	
Temperature of Water (°C)		5.0	8.0	10.5	10.0	10.0	10.0	10.5	
Dissolved Oxygen (mg/l)		12.0	11.1	10.1	10.2	11.6	11.5	12.0	
pH		6.78	6.77	6.76	6.75	6.39	6.45	6.42	
Specific Conductance (umhos)		103.7	108.0	93.6	74.9	89.7	79.9	79.4	
BOD_5 (mg/l)		3.0	5.2	5.8	3.9	4.9	3.8	2.9	
Suspended Solids (mg/l)		13.0	70	676	330	150	97	19.0	
Total Kjeldal Nitrogen (mg N/l)		0.78	1.06	2.59	1.32	1.18	0.95	0.70	
Total Phosphorus (mg P/l)		0.14	0.13	0.45	0.33	0.20	.13	0.12	
Fecal Coliform/100ml		1.0K	1.2K	7.8K	5.0K	3.5K	1.7K	1.5K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.030	0.025	0.035	0.030	0.040	0.035	<0.010	
	Fe	4.676	6.486	20.08	12.800	12.03	6.973	3.250	
	Zn	0.220	0.227	0.460	0.070	0.117	0.167	0.113	

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1210 Location Rock Creek @ Shackelford Road

Event Date 1/22/82

* Verasr special metals

Sample Number		1	2	3*	4	5	6	7	Composite
Date Sampled		1/22	1/22	1/22	1/22	1/22	1/23	1/23	
Time		15:55	17:20	18:30	21:40	23:35	00.59	11:45	
Stage Reading		11'9"	11'6"	11'2½"	11'5"	11'6"	11'6½"	11'8½"	
Discharge CFS		25	75	165	100	75	70	35	
Temperature of Water (°C)		5.0	5.0	5.0	5.0	6.0	6.0	7.0	
Dissolved Oxygen (ug/l)		9.7	10.6	10.5	10.5	11.0	11.0	11.1	
pH		6.38	6.40	6.38	6.38	6.39	6.45	6.48	
Specific Conductance (umhos)		62.8	52.4	55.4	69.3	51.2	61.2	79.4	
BOD_5 (mg/l)		3.5	5.5	4.2	5.1	3.3	4.2	3.0	
Suspended Solids (mg/l)		12.5	378	354	215	130	131	111	
Total Kjeldal Nitrogen (mg N/l)		0.69	1.26	1.26	1.79	1.10	0.91	0.96	
Total Phosphorus (mg P/l)		0.13	0.27	0.26	0.57	0.30	0.25	0.12	
Fecal Coliform/100ml		1.6K	4.2K	2.4K	4.0K	2.5K	1.9K	1.0K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.035	0.045	0.020	0.040	0.04	0.020	<0.010	
	Fe	13.730	13.622	22.00	13.892	10.78	4.919	4.521	
	Zn	0.110	0.127	0.080	0.150	0.09	0.033	0.037	

47 NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1220 Location Rock Creek @ Boyle Park

Event Date 1/22/82

* Versar special metals

Sample Number	1	2	3	4*	5	6	7	Composite
Date Sampled	1/22	1/22	1/22	1/22	1/22	1/22	1/22	
Time	16:15	17:00	18:10	21:20	23:20	01:25	12:45	
Stage Reading	8;1½	7'1"	5'41"	6'10"	7'1½"	7'7"	8'3"	
Discharge CFS	55	? 191	405	265	207	150	68	
Temperature of Water (°C)	5.0	9.0	10.0	10.0	9.5	10.0	10.0	
Dissolved Oxygen (ug/1)	9.2	10.8	9.7	10.2	11.4	11.5	11.7	
pH	6.81	6.87	6.74	6.68	6.38	6.45	6.22	
Specific Conductance (umhos)	84.9	87.8	80.9	79.2	90.3	61.5	52.9	
BOD_5 (mg/1)	2.9	5.6	5.2	3.6	4.3	3.9	2.8	
Suspended Solids (mg/1)	14.7	354	850	382	168	109	43	
Total Kjeldal Nitrogen (mg N/1)	0.88	1.37	2.89	1.34	1.65	0.95	0.69	
Total Phosphorus (mg P/1)	0.12	0.24	0.59	0.28	0.38	0.29	0.08	
Fecal Coliform/100ml	1.1K	1.0K	7.0K	5.0K	4.0K	3.7K	2.0K	
Metals mg/1 Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cu	<0.010	0.025	0.025	0.030	0.025	0.020	<0.010	
Fe	4.324	15.595	21.00	12.20	1.622	3.649	2.951	
Zn	0.197	0.280	0.250	0.200	0.126	0.113	0.080	

(48) NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1310 Location Rock Creek @ I-630

Event Date 1/22/82

* versar special metals

Sample Number		1	2	3*	4	5	6	7	Composite
Date Sampled		1/22	1/22	1/22	1/22	1/22	1/23	1/23	
Time		16:05	17:10	18:20	21:30	23:30	01:10	11:30	
Stage Reading		22'9"	21'0"	20'6"	21'10	22'0"	22'1"	22'4"	
Discharge CFS		40	183	285	170	141	110	52	
Temperature of Water (°C)		5.5	6.0	6.0	6.0	6.0	6.0	5.5	
Dissolved Oxygen (mg/l)		11.6	9.5	9.6	10.2	10.7	10.7	11.5	
pH		6.63	6.68	6.66	6.59	6.34	6.38	6.46	
Specific Conductance (umhos)		110.9	67.8	69.3	72.4	83.1	82.9	83.9	
BOD_5 (mg/l)		5.6	8.4	7.5	3.7	4.6	3.0	2.4	
Suspended Solids (mg/l)		40.7	1368	536	168	164	112	65	
Total Kjeldal Nitrogen (mg N/l)		0.96	1.09	1.90	0.88	1.44	0.95	0.72	
Total Phosphorus (mg P/l)		0.16	0.60	0.35	0.27	0.36	0.21	0.11	
Fecal Coliform/100ml		1.0K	2.0K	8.0K	2.8K	4.2K	2.5K	1.8K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.025	0.020	0.04	0.030	0.035	0.015	<0.010	
	Fe	5.81	21.865	31.70	12.513	11.76	4.595	3.513	
	Zn	0.197	0.157	0.280	0.153	0.283	0.107	0.040	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1040 Location Rock Creek @ 36th Street

Event Date 1/29/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		1/30	1/30	1/30	1/30	1/31	1/31	1/31	
Time		19:58	20:30	21:00	21:52	00:30	12:00	16:15	
Stage Reading		4.54	7.15	8.86	9.40	7.48	4.45	4.10	
Discharge CFS		310	1675	3175	3825	1925	280	190	
Temperature of Water (°C)		14.0	14.0	13.0	10.0	10.0	10.0	8.0	
Dissolved Oxygen (mg/l)		9.1	9.1	9.3	9.7	10.9	11.3	11.2	
pH		6.39	6.47	6.58	6.55	6.55	6.54	6.52	
Specific Conductance (umhos)		61.8	60.2	46.7	48.3	51.9	64.4	66.0	
BOD_5 (mg/l)		6.1	6.7	5.5	4.8	3.9	4.2	3.8	
Suspended Solids (mg/l)		61	482	1106	894	395	80	41	
Total Kjeldal Nitrogen (mg N/l)		1.09	2.57	4.00	3.51	1.21	1.03	0.68	
Total Phosphorus (mg P/l)		0.25	0.54	0.76	0.94	0.75	0.20	0.18	
Fecal Coliform/100ml		8.0K	12.5K	9.0K	4.0K	6.5K	7.0K	6.8K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.035	0.035	0.030	0.025	<0.010	<0.010	<0.010	
	Fe	7.324	7.703	21.757	(20.68)	12.81	6.505	3.721	
	Zn	0.090	(0.237)	0.290	0.143	(0.117)	0.093	0.083	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1220 Location Rock Creek @ Boyle Road

Event Date 1/29/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		1/30	1/30	1/30	1/30	1/31	1/31	1/31	
Time		19:10	20:10	21:35	22:10	00:50	11:45	16:00	
Stage Reading		6'1"	3'0"	2'6"	3'9"	5'6"	6'11"	7'4"	
Discharge CFS		243	1525	2550	1210	484	100	0	
Temperature of Water (°C)		15.0	15.0	12.0	12.0	8.0	7.0	8.0	
Dissolved Oxygen (ug/l)		8.9	9.4	9.8	10.2	11.1	11.0	10.9	
pH		6.45	657	655	6.51	6.64	6.55	6.59	
Specific Conductance (umhos)		54.8	49.9	38.6	35.2	60.2	64.4	66.0	
BOD_5 (mg/l)		7.9	6.1	3.9	3.3	2.9	3.2	4.2	
Suspended Solids (mg/l)		385	1426	678	297	152	134	45	
Total Kjeldal Nitrogen (mg N/l)		2.35	4.60	2.32	1.92	1.51	1.07	0.72	
Total Phosphorus (mg P/l)		0.78	1.07	0.60	0.54	0.39	0.17	0.16	
Fecal Coliform/100ml		2.1K	8.2K	7.8K	8.9K	5.5K	8.4K	4.0K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.050	0.030	0.040	0.025	0.020	<0.010	<0.010	
	Fe	22.38	20.162	9.22	5.189	3.180	2.875	1.923	
	Zn	0.390	0.337	0.227	0.113	0.123	0.137	0.090	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1310 Location Rock Creek @ I - 630

Event Date 1/29/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		1/30	1/30	1/30	1/30	1/31	1/31	1/31	
Time		19:00	19:43	21:20	23:50	12:25	15:50	18:30	
Stage Reading		19'11"	17'10"	16'6	17'8"	20'9"	21'9"	22'2"	
Discharge CFS		300	550	675	500	175	100	70	
Temperature of Water (°C)		12.0	12.0	11.0	11.0	10.0	10.0	10.0	
Dissolved Oxygen (mg/l)		9.2	9.3	9.9	10.3	10.8	11.0	11.2	
pH		6.48	6.50	6.45	6.54	6.38	6.42	6.57	
Specific Conductance (umhos)		59.2	55.5	43.7	41.3	57.9	61.2	64.9	
BOD_5 (mg/l)		6.3	6.6	5.4	5.2	6.0	3.5	2.7	
Suspended Solids (mg/l)		455	1614	698	281	56	48	39	
Total Kjeldal Nitrogen (mg N/l)		2.19	4.38	2.02	1.75	1.45	0.68	0.51	
Total Phosphorus (mg P/l)		0.93	1.15	0.67	0.81	0.16	0.14	0.12	
Fecal Coliform/100ml		12.5K	11.6K	10.2	9.9K	8.0K	2.4K	2.1K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.060	0.070	0.060	0.020	0.03	0.020	<0.010	
	Fe	22.486	19.054	7.108	6.510	6.87	5.945	4.308	
	Zn	0.227	0.257	0.250	0.140	0.11	0.093	0.117	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. Ar1011 Location Old Forge @ Coachlite

Event Date 2/8/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		2/8	2/8	2/8	2/8	2/8	2/8	2/8	
Time		14:55	15:04	15:15	15:25	15:38	16:03	16:25	
Stage Reading									
Discharge CFS		188	208	238	224	213	193	153	
Temperature of Water (°C)		3.5	3.5	3.5	4.5	4.0	4.0	4.0	
Dissolved Oxygen (mg/l)		12.9	12.4	12.8	12.5	12.5	12.6	12.0	
pH		6.69	6.73	6.74	6.73	6.72	6.75	6.75	
Specific Conductance (umhos)		152.5	126.3	107.8	118.6	101.1	100.1	97.0	
BOD_5 (mg/l)		5.6	6.5	5.7	8.3	6.9	6.0	6.1	
Suspended Solids (mg/l)		60.5	89.5	135	138.5	114.5	75.5	61.0	
Total Kjeldal Nitrogen (mg N/l)		2.37	1.39	1.18	1.27	1.07	1.17	0.95	
Total Phosphorus (mg P/l)		0.21	0.27	0.32	0.36	0.36	0.41	0.31	
Fecal Coliform/100ml		900	1.0K	3.0K	2,1K	1.8K	1.7K	1.0K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.026	0.018	0.025	0.016	0.019	0.015	0.016	
	Fe	8.422	8.711	7.911	9.533	8.444	4.711	5.821	
	Zn	0.046	0.020	0.018	0.020	0.018	<0.010	<0.010	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1230 Location Old Forge @ Brenchenridge

Event Date 2/8/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		2/8	2/8	2/8	2/8	2/8	2/8	2/8	
Time		15:00	15:10	15:20	15:32	15:47	16:10	16:30	
Stage Reading		6'10"	6'8½"	6'5"	6'7"	6'8"	6'9"	6'11"	
Discharge CFS		200	220	250	236	225	205	165	
Temperature of Water (°C)		3.5	3.5	3.5	4.0	4.0	4.0	4.0	
Dissolved Oxygen (mg/l)		13.0	12.4	12.7	13.1	12.7	12.5	11.9	
pH		6.74	6.60	6.67	6.65	6.69	6.65	6.63	
Specific Conductance (umhos)		98.6	110.9	109.3	117.0	107.8	121.7	115.5	
BOD_5 (mg/l)		8.2	6.5	7.0	6.1	7.0	6.3	5.4	
Suspended Solids (mg/l)		55.5	71.0	96.5	109	114	76	65	
Total Kjeldal Nitrogen (mg N/l)		1.16	1.12	1.19	1.34	1.19	1.19	1.01	
Total Phosphorus (mg P/l)		0.20	0.22	0.22	0.23	0.30	0.36	0.29	
Fecal Coliform/100ml		1.0K	1.5K	2.4K	2.0K	2.2K	1.8K	1.1K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.023	0.031	0.030	0.029	0.023	0.028	0.024	
	Fe	4.356	4.733	7.444	7.956	9.689	6.111	5.838	
	Zn	0.011	0.013	0.011	0.013	0.010	0.011	0.019	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1040 Location Rock Creek @ 36th Street

Event Date 2/16/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		2/16	2/16	2/16	2/16	2/16	2/17	2/17	
Time		19:26	20:22	20:48	21:30	22:00	00:30	08:50	
Stage Reading		3.83	5.30	5.45	4.83	4.50	3.91	3.48	
Discharge CFS		135	590	665	410	295	145	75	
Temperature of Water (^{o}C)		13.0	13.0	13.0	13.0	13.0	10.0	10.0	
Dissolved Oxygen (ug/l)		12.3	13.1	12.1	11.6	11.4	11.9	13.1	
pH		6.48	6.17	6.24	6.52	6.74	7.05	7.11	
Specific Conductance (umhos)		85.1	76.7	67.2	65.1	66.2	76.7	84.0	
BOD_5 (mg/l)		4.0	8.4	5.4	4.4	4.2	5.4	3.0	
Suspended Solids (mg/l)		48	260	268	206	198	98	14.5	
Total Kjeldal Nitrogen (mg N/l)		1.42	1.68	1.91	1.56	1.39	1.63	0.88	
Total Phosphorus (mg P/l)		0.24	0.39	0.28	0.32	0.29	0.20	0.09	
Fecal Coliform/100ml		2.6K	3.4K	5.2K	4.6K	4.4K	3.5K	1.0K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.021	0.025	0.025	0.025	0.020	<0.01	0.010	
	Fe	5.022	14.04	13.67	13.289	13.82	8.844	1.956	
	Zn	0.038	0.046	0.030	0.033	0.021	0.023	0.024	

(5b)

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1220 Location Rock Creek @ Boyle Park

Event Date 2/16/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		2/16	2/16	2/16	2/16	2/16	2/16	2/17	
Time		19:35	20:10	20:35	21:15	21:45	22:15	00:15	
Stage Reading		6'2½"	5'11"	5'9"	6'10"	7'1½"	7'5"	7'10"	
Discharge CFS		260	300	380	240	210	160	100	
Temperature of Water (°C)		14.0	13.0	13.0	13.0	12.0	12.0	11.0	
Dissolved Oxygen (mg/l)		11.7	12.0	10.9	13.1	12.1	12.1	12.4	
pH		6.82	6.79	6.88	6.74	6.90	7.05	6.82	
Specific Conductance (umhos)		64.1	63.0	62.0	67.2	64.1	72.5	79.8	
BOD_5 (mg/l)		4.6	6.3	4.6	7.4	4.0	4.2	4.2	
Suspended Solids (mg/l)		310	244	201	165	106	38	89	
Total Kjeldal Nitrogen (mg N/l)		1.49	1.65	1.59	1.84	1.26	1.10	1.10	
Total Phosphorus (mg P/l)		0.35	0.33	0.43	0.38	0.23	0.22	0.16	
Fecal Coliform/100ml		3.1K	4.2K	6.2K	3.6K	5.2K	3.7K	2.7K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.013	0.011	<0.010	<0.010	<0.01	<0.010	<0.010	
	Fe	14.622	13.867	13.62	11.911	11.24	9.622	15.378	
	Zn	0.088	0.061	0.071	0.049	0.038	0.034	0.028	

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1010 Location Grassy Flats @ Resevoir Rd

Event Date 3/14/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		3/14	3/14	3/14	3/14	3/14	3/14	3/14	
Time		00:10	00:30	00:50	03:38	04:43	11:25	15:05	
Stage Reading		4.47	5.30	6.56	6.36	5.86	4.59	4.55	
Discharge CFS		13	62	253	208	123	19	16	
Temperature of Water (°C)		14.0	14.0	13.0	13.0	13.0	11.0	11.0	
Dissolved Oxygen (ug/l)		8.9	9.9	10.7	10.5	11.1	12.2	10.7	
pH		6.70	6.84	6.75	6.70	6.48	7.20	7.21	
Specific Conductance (umhos)		134	98	75	51	41.5	36.5	95.5	
BOD_5 (mg/l)		3.7	4.7	4.3	5.3	7.0	4.0	2.5	
Suspended Solids (mg/l)		3.0	246	328	234	312	12	19	
Total Kjeldal Nitrogen (mg N/l)		2.31	2.49	3.44	1.78	1.59	1.11	0.89	
Total Phosphorus (mg P/l)		0.15	0.33	0.41	0.49	0.42	0.13	0.05	
Fecal Coliform/100ml		6.0K	4.5K	5.5K	8.0K	12.0K	6.0K	2.0K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.035	0.035	0.030	0.035	0.020	<0.010	<0.010	
	Fe	4.351	14.081	16.62	13.973	16.46	3.784	8.297	
	Zn	0.203	0.240	0.270	0.117	0.143	0.113	0.113	

(58) NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1020 Location Rock Creek @ West Markham

Event Date 3/14/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		3/14	3/14	3/14	3/14	3/14	3/14	3/15	
Time		01:05	03:50	04:58	11:10	14:55	18:33	10:45	
Stage Reading		13'2"	12'11½"	12'9½"	12'11"	12'10½"	13'1"	13'4"	
Discharge CFS		55	105	165	130	145	85	30	
Temperature of Water (°C)		13.0	14.0	12.0	11.0	11.0	16.0	16.0	
Dissolved Oxygen (mg/l)		9.6	10.2	10.0	10.5	10.9	11.2	10.9	
pH		6.45	6.28	6.41	6.29	6.43	6.39	6.41	
Specific Conductance (umhos)		55	49	51	42	47	42	41	
BOD_5 (mg/l)		1.5	3.0	1.2	1.6	4.2	3.4	3.1	
Suspended Solids (mg/l)		384	260	222	14.0	13.0	4.5	3.5	
Total Kjeldal Nitrogen (mg N/l)		1.39	1.17	1.07	0.85	0.85	0.78	0.86	
Total Phosphorus (mg P/l)		0.25	0.25	0.28	0.17	0.16	0.15	0.12	
Fecal Coliform/100ml		1.0K	8.7K	4.3K	7.0K	4.0K	5.0K	2.0K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.030	0.023	0.023	0.043	0.046	0.049	0.033	
	Fe	16.33	13.61	14.56	4.083	2.306	1.982	1.575	
	Mn	0.434	0.239	0.383	0.321	0.276	0.173	0.148	
	Zn	0.160	0.127	0.123	0.142	0.104	0.073	0.048	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1210 Location Rock Creek @ Shackleford Rd

Event Date 3/14/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		3/14	3/14	3/14	3/14	3/14	3/14	3/15	
Time		01:15	03:55	05:05	11:05	14:50	18:27	10:55	
Stage Reading		11'6½"	11'5½"	11'4"	11'5½"	11'6"	11'7"	11'8"	
Discharge CFS		62	75	115	75	70	55	35	
Temperature of Water (°C)		13.0	13.0	13.0	11.0	12.0	16.0	16.0	
Dissolved Oxygen (mg/l)		10.2	10.9	10.6	10.8	11.9	10.3	10.4	
pH		6.39	6.41	6.14	6.58	7.01	6.70	6.65	
Specific Conductance (umhos)		69	75	59	39	51	47	45	
BOD_5 (mg/l)		3.0	3.4	2.2	1.8	6.5	3.2	2.9	
Suspended Solids (mg/l)		416	456	126	24	61	2.0	4.0	
Total Kjeldal Nitrogen (mg N/l)		1.87	1.79	1.91	0.71	0.94	0.64	0.58	
Total Phosphorus (mg P/l)		0.02	0.37	0.28	0.15	0.08	0.12	0.10	
Fecal Coliform/100ml		9.5K	4.1K	9.0K	4.5K	2.9K	1.6K	1.9K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.030	0.049	0.043	0.030	0.023	0.023	0.026	
	Fe	16.17	(7.139)	11.39	(4.583)	3.389	(2.075)	2.472	
	Mn	0.163	(0.378)	0.240	0.347	0.163	(0.250)	0.194	
	Zn	0.177	0.162	0.150	0.125	0.073	0.092	0.090	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1310 Location Rock Creek @ I-630

Event Date 3/14/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		3/14	3/14	3/14	3/14	3/14	3/14	3/15	
Time		01:25	04:00	05:15	10:55	14:45	18:20	10:10	
Stage Reading		22'3"	18'7"	17'4"	19'10"	20'11½"	22'1"	22'3"	
Discharge CFS		90	350	500	335	210	110	90	
Temperature of Water (°C)		14.0	14.0	14.0	13.0	13.0	11.0	12.0	
Dissolved Oxygen (mg/l)		11.9	10.9	10.4	10.7	11.1	10.7	10.7	
pH		6.45	6.49	6.54	6.52	6.47	6.68	6.75	
Specific Conductance (umhos)		85	79	51	48	59	60	85	
BOD_5 (mg/l)		2.1	8.5	8.7	1.6	3.5	1.5	1.5	
Suspended Solids (mg/l)		5.0	385	684	260	150	18.0	15.0	
Total Kjeldal Nitrogen (mg N/l)		0.71	1.95	3.06	2.05	1.17	0.85	0.87	
Total Phosphorus (mg P/l)		0.14	0.47	0.51	0.47	0.59	0.13	0.17	
Fecal Coliform/100ml		1.4K	12K	20K	12K	10K	9.5K	3.0K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.052	0.046	0.046	0.029	0.033	0.016	0.030	
	Fe	1.917	10.527	18.50	13.980	14.91	10.472	4.472	
	Mn	0.219	0.194	0.837	0.250	0.479	0.328	0.244	
	Zn	0.156	0.223	0.196	0.133	0.144	0.192	0.158	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1250 Location Grassy Flats @ Markham St

Event Date 3/14/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		3/14	3/14	3/14	3/14	3/14	3/14	3/14	
Time		00:20	00:40	00:55	03:43	04:33	11:30	16:00	
Stage Reading		11'4"	11'½"	9'11"	9'11½"	10'4½"	11'5"	11'6"	
Discharge CFS		20	93	380	310	185	30	24	
Temperature of Water (°C)		14.0	14.0	13.0	13.0	13.0	11.0	11.0	
Dissolved Oxygen (mg/l)		11.0	11.4	10.4	10.8	11.2	10.1	10.8	
pH		7.12	6.75	6.89	6.62	6.68	6.94	7.00	
Specific Conductance (umhos)		85	75	99	69	60	95	101	
BOD_5 (mg/l)		6.9	6.0	8.4	7.1	4.8	3.1	2.1	
Suspended Solids (mg/l)		156	162	414	468	164	9.0	6.0	
Total Kjeldal Nitrogen (mg N/l)		1.72	1.30	2.83	2.60	1.38	0.75	0.86	
Total Phosphorus (mg P/l)		0.18	0.22	0.34	0.31	0.32	0.17	0.05	
Fecal Coliform/100ml		2.5K	3.2K	15K	19K	12K	3.9K	3.7K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.020	0.020	0.015	<0.010	<0.010	0.020	<0.010	
	Fe	11.35	11.730	17.81	18.54	18.16	4.081	3.054	
	Zn	0.113	0.143	0.170	0.160	0.210	0.127	0.140	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1010 Location Grassy Flats @ Resevior

Event Date 4/1/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		4/1	4/2	4/2	4/2	4/2	4/2	4/2	
Time		23:45	00:05	00:30	00:55	01:25	06:00	11:20	
Stage Reading		6.69	7.03	7.57	7.11	6.79	6.78	4.60	
Discharge CFS		300	390	550	400	325	320	20	
Temperature of Water (^{o}C)		19	19	19	19	19	19	19	
Dissolved Oxygen (mg/l)		9.5	9.1	9.2	8.1	8.7	9.0	9.0	
pH		6.28	6.32	6.20	6.07	6.10	6.22	6.77	
Specific Conductance (umhos)		61	59	68	57	55	62	104	
BOD_5 (mg/l)		9.0	9.0	9.1	6.9	6.5	7.2	2.0	
Suspended Solids (mg/l)		74	147	318	190	150	82	21	
Total Kjeldal Nitrogen (mg N/l)		1.29	1.31	2.47	1.19	1.68	1.82	1.25	
Total Phosphorus (mg P/l)		0.25	0.40	0.45	0.38	0.35	0.22	0.18	
Fecal Coliform/100ml		9.5K	13K	19K	22K	17K	10.5K	8.9K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.08	0.033	0.026	0.029	0.026	0.023	0.023	
	Fe	15.09	12.472	10.72	8.972	12.86	10.556	8.250	
	Mn	0.576	0.582	0.347	0.321	0.276	0.281	0.459	
	Zn	0.29	0.181	0.219	0.196	0.173	0.189	0.267	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1250 Location Grassy Flat @ West Markham

Event Date 4/1/82

Sample Number	1	2	3	4	5	6	7	Composite
Date Sampled	4/1	4/2	4/2	4/2	4/2	4/2	4/2	
Time	23:55	00:20	00:40	01:10	01:40	06:40	11:35	
Stage Reading	11'0"	10'9"	10'8"	10'8½"	10'10½"	10'11"	11'6"	
Discharge CFS	432	522	750	000	478	470	60	
Temperature of Water (°C)	19	19	19	19	19	19	19	
Dissolved Oxygen (mg/l)	8.0	9.6	9.1	9.0	8.6	9.3	10.1	
pH	6.16	6.19	6.10	6.27	6.13	6.16	6.67	
Specific Conductance (umhos)	54	60	70	55	54	54	90	
BOD_5 (mg/l)	9.1	9.5	9.6	9.0	8.6	7.3	6.4	
Suspended Solids (mg/l)	158	316	735	184	216	54	21	
Total Kjeldal Nitrogen (mg N/l)	1.45	1.68	2.59	1.09	1.59	1.45	0.89	
Total Phosphorus (mg P/l)	0.28	0.45	0.65	0.45	0.33	0.28	0.20	
Fecal Coliform/100ml	10.8K	12K	21K	18K	19K	12K	7.2K	
Metals mg/l — Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cu	0.026	0.032	0.019	0.026	0.020	0.026	0.016	
Fe	18.81	15.639	15.06	11.222	11.86	11.917	2.333	
Mn	0.515	0.668	0.607	0.408	0.388	0.432	0.316	
Zn	0.338	0.206	0.196	0.187	0.117	0.135	0.112	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1210 Location Rock Creek @ Shackleford Rd

Event Date 4/2/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		4/2	4/2	4/2	4/2	4/2	4/2	4/2	
Time		02:00	05:45	06:10	06:50	08:00	10:55	13:40	
Stage Reading		11'7"	11'6"	11'5"	11'6"	11'6½"	11'7"	11'8"	
Discharge CFS		55	75	95	75	65	55	35	
Temperature of Water (°C)		19	19	19	19	19	19	19	
Dissolved Oxygen (mg/1)		9.1	9.5	9.8	9.0	8.9	9.0	8.9	
pH		6.15	6.05	6.23	5.94	6.05	6.05	6.25	
Specific Conductance (umhos)		65	40	42	40	50	55	78	
BOD_5 (mg/1)		3.6	5.5	9.8	9.0	2.3	6.4	2.8	
Suspended Solids (mg/1)		98	234	160	126	99	38	25	
Total Kjeldal Nitrogen (mg N/1)		1.58	1.68	1.58	1.54	1.45	0.95	0.89	
Total Phosphorus (mg P/1)		0.21	0.25	0.26	0.35	0.21	0.25	0.19	
Fecal Coliform/100ml		7.9K	15.6K	12.5K	9.6K	7.9K	8.0K	5.1K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	CU	0.023	0.023	0.020	0.020	0.013	0.026	0.013	
	Fe	13.14	8.778	7.051	6.639	2.806	4.528	3.162	
	Mn	0.444	0.317	0.19	0.239	0.204	0.398	0.270	
	Zn	0.096	0.065	0.085	0.035	0.062	0.090	0.062	

NATIONAL URBAN RUNOFF PROGRAM

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Rainfall Event

Station No. AR 1022 Location Coleman Creek @ West Markham (left)

Event Date 4/18/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		4/18	4/18	4/18	4/19	4/19	4/19	4/19	
Time		23:15	23:45	23:55	00:03	00:20	1:20	11:22	
Stage Reading		12'0"	10'11"	10'9"	11'0"	11'2"	11'4"	12'4"	
Discharge CFS		53	253	294	213	176	145	13	
Temperature of Water (°C)		19	19	19	19	19	19	20	
Dissolved Oxygen (mg/l)		8.6	8.2	9.2	9.1	9.8	9.5	8.9	
pH		6.30	6.21	5.77	5.80	5.85	6.09	6.21	
Specific Conductance (umhos)		45	49	38	36	39	78	147	
BOD_5 (mg/l)		6.5	10.5	12.9	11.5	7.9	5.9	6.4	
Dis. Solids (mg/l)									
Suspended Solids (mg/l)		165	370	338	330	160	85	18	
Total Kjeldal Nitrogen (mg N/l)		1.52	2.15	2.05	1.98	1.75	1.95	1.89	
Total Phosphorus (mg P/l)		0.34	0.42	0.39	0.46	0.38	0.31	0.20	
Fecal Coliform/100ml		10K	12.1K	13K	13K	14K	9.8K	10K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.043	0.046	0.032	0.013	0.023	0.016	0.026	
	Fe	15.69	16.778	14.58	13.850	11.778	2.94	1.031	
	Mn	0.418	0.745	0.393	0.239	0.214	0.194	0.148	
	Zn	0.219	0.238	0.202	0.142	0.139	0.135	0.106	

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NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1033 Location Coleman Creek @ West Markham (right)

Event Date 4/18/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		4/18	4/18	4/18	4/19	4/19	4/19	4/19	
Time		23:25	23:50	23:58	00:07	00:35	01:10	11:32	
Stage Reading		4'5"	3'10"	4'0"	4'3"	4'7"	4'8"	4'9"	
Discharge CFS		230	441	372	280	205	190	162	
Temperature of Water (°C)		19	19	19	19	19	19	20	
Dissolved Oxygen (mg/l)		8.9	9.0	9.1	8.7	9.0	8.9	8.6	
pH		6.45	6.41	6.35	6.40	6.31	6.54	6.48	
Specific Conductance (umhos)		58	47	59	64	75	69	195	
BOD_5 (mg/l)		9.5	14.5	13.8	8.4	7.5	7.7	5.1	
Suspended Solids (mg/l)		143	220	246	380	146	132	62	
Total Kjeldal Nitrogen (mg N/l)		1.39	1.65	1.78	1.48	1.59	1.55	1.32	
Total Phosphorus (mg P/l)		0.13	0.15	0.47	0.56	0.33	0.39	0.28	
Fecal Coliform/100ml		29K	32K	45K	30K	28K	24K	9.2K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.036	0.036	0.020	0.053	0.023	0.020	0.016	
	Fe	14.42 (14.42)	(14.778)	15.44	17.528	(9.806)	4.472	1.978	
	Mn	0.296	0.383	0.398	0.714	0.199	0.265	0.158	
	Zn	0.187	0.304	0.250	0.346	0.190	0.179	0.140	

(67)

..ATIONAL URBAN ·UNOFF PROGRAM

Rainfal· Event

Station No. AR 1240 Location Coleman Creek . (down stream)

Event Date 4/18/82

Sample umber	1	2	3	4	5	6	7	Composite
Date Sampled	4/18	4/18	4/18	4/19	4/19	4/19	4/19	
Time	23:35	23:53	24:00	00:11	00;40	01:30	11:44	
Stage Reading	7'0"	5'5"	5'4"	5'5"	7'0"	7'4"	8'5"	
Discharge CFS	193	725	775	725	193	145	51	
Temperature of Water (^{o}C)	19	19	19	19	19	20	20	
Dissolved Oxygen (mg/1)	8.4	8.3	9.0	9.5	9.9	9.6	9.4	
,H	6.45	6.28	6.31	6.18	5.95	6.11	6.18	
Specific Conductance (umhos)	79	52	47	45	49	85	129	
BOD_5 (mg/1)	10.8	14.5	13.9	11.9	9.3	9.1	8.1	
Suspended Solids (mg/1)	138	218	320	428	134	81	23	
Total Kjeldal Nitrogen (mg N/1)	1.67	1.95	1.89	1.92	1.59	1.75	1.65	
Total Phosphorus (mg P/1)	0.15	0.13	0.21	0.31	0.19	0.19	0.26	
Fecal Coliform/100ml	9.0K	13K	17.5K	35K	40K	26K	30K	
Metals mg/l Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cu	0.023	0.020	0.020	0.026	0.026	0.016	0.013	
Fe	4.525	9.132	12.36	16.472	(16.19)	8.173	(11.750)	
Mn	0.230	0.464	0.479	0.321	0.143	0.158	0.265	
Zn	0.163	0.150	0.148	0.200	0.388	0.208	0.175	

(68)

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR 1011 Location Old Forge @ Coachlite Rd

Event Date 5/6/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		5/6	5/6	5/6	5/6	5/6	5/7	5/7	
Time		21:50	22:01	22:40	22:51	23:15	00:12	01:30	
Stage Reading		191	222	417	318	208	189	0	
Discharge CFS									
Temperature of Water (°C)		22	22	22	22	22	22	22	
Dissolved Oxygen (mg/l)		9.7	9.9	9.6	9.7	9.7	9.6	9.5	
pH		7.19	6.12	6.09	6.08	6.20	6.35	6.45	
Specific Conductance (umhos)		45	75	85	69	70	89	105	
BOD_5 (mg/l)		5.2	5.9	6.2	7.9	6.9	4.5	3.5	
Suspended Solids (mg/l)		4.0	124	296	472	364	202	30	
Total Kjeldal Nitrogen (mg N/l)		1.45	2.09	2.25	2.45	2.39	2.21	1.69	
Total Phosphorus (mg P/l)		0.25	0.51	0.59	0.65	0.55	0.20	0.35	
Fecal Coliform/100ml		4.5K	7.9K	14K	15K	11K	9.8K	5.0K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.013	0.016	0.01	0.026	0.016	0.020	0.023	
	Fe	0.833	9.500	9.555	16.139	13.36	9.278	6.000	
	Mn	0.592	0.806	0.796	0.668	0.489	0.224	0.204	
	Zn	0.079	0.090	0.073	0.115	0.100	0.092	0.071	

(69)

..ATIONAL URBAN ·UNOFF PROGRAM

Rainfal· Event

Station No. AR 1230 Location Old Forge @ Breckenridge Pk

Event Date 5/6/82

Sample umber	1	2	3	4	5	6	7	Composite
Date Sampled	5/6	5/6	5/6	5/6	5/6	5/7	5/7	
Time	21:55	22:08	22:43	22:56	23:25	00:17	01:40	
Stage Reading	6'9½"	6'7"	5'9"	6'1½"	6'8½"	6'10"	9'1"	
Discharge CFS	203	236	442	337	220	200	0	
Temperature of Water (°C)	22	22	22	22	22	22	22	
Dissolved Oxygen (mg/1)	9.8	9.9	9.5	9.7	9.7	9.5	9.5	
pH	7.29	6.20	6.43	6.13	6.28	6.42	6.35	
Specific Conductance (umhos)	45	89	95	73	75	79	94	
BOD_5 (mg/1)	4.3	5.7	7.5	8.9	7.1	3.5	2.1	
Suspended Solids (mg/1)	3.5	128	132	352	258	106	36.0	
Total Kjeldal Nitrogen (mg N/1)	1.10	2.19	1.65	2.35	2.19	2.05	1.85	
Total Phosphorus (mg P/1)	0.22	0.35	0.48	0.41	0.45	0.29	0.37	
Fecal Coliform/100ml	5.1K	6.9K	13K	15.5K	10K	7.8K	5.1K	
Metals mg/l Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cu	0.036	0.026	0.026	0.020	0.023	<0.010	0.013	
Fe	0.833	0.056	9.056	17.194	15.53	12.167	7.472	
Mn	0.643	0.362	0.734	0.888	0.546	0.403	0.454	
Zn	0.140	0.050	0.071	0.092	0.129	0.072	0.054	

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1011 Location Old Forge @ Coachlite

Event Date 5/19/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		5/19	5/19	5/19	5/19	5/19	5/19	5/20	
Time		19:30	20:10	20:30	20:40	21:08	23:20	01:40	
Stage Reading									
Discharge CFS		85	220	310	275	178	103	85	
Temperature of Water (°C)		20	20	20	20	20	20	20	
Dissolved Oxygen (mg/l)		9.5	9.7	7.5	7.6	7.6	7.9	7.7	
pH		7.22	6.35	6.62	6.41	6.27	6.79	7.11	
Specific Conductance (umhos)		110	64	51	57	70.5	99.5	119	
BOD_5 (mg/l)		2.2	6.0	17.0	7.3	6.6	3.9	2.3	
Suspended Solids (mg/l)		7.0	102	276	206	68	12	7	
Total Kjeldal Nitrogen (mg N/l)		1.51	2.65	2.71	1.98	1.95	1.70	0.83	
Total Phosphorus (mg P/l)		0.13	0.78	1.08	1.29	0.71	0.31	0.25	
Fecal Coliform/100ml		1.4K	6.5K	10.9K	9.7K	5.8K	4.8K	2.0K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.042	0.046	0.039	0.023	0.026	0.020	0.020	
	Fe	11.444	13.361	10.806	4.205	2.80	0.806	1.810	
	Mn	0.367	0.240	0.229	0.194	0.158	0.133	0.184	
	Zn	0.148	0.113	0.079	0.073	0.048	0.094	0.112	

(41)

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. AR1230 Location Old Forge @ Brechenridge Park

Event Date 5/19/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		5/19	5/19	5/19	5/19	5/19	5/19	5/20	
Time		19:35	20:15	20:35	20:45	21:11	23:24	01:45	
Stage Reading		7'6"	6'7"	6'1"	6'4"	6'10½"	7'2½"	7'6"	
Discharge CFS		90	236	330	290	190	110	90	
Temperature of Water (°C)		20.0	20.0	20.0	20.0	20.0	20.0	20.0	
Dissolved Oxygen (mg/l)		9.6	7.9	7.8	7.8	7.8	7.9	9.7	
pH		7.51	6.46	6.30	6.32	6.51	6.76	7.21	
Specific Conductance (umhos)		125	58	46	50	66.5	100.0	122	
BOD_5 (mg/l)		2.0	6.9	11.0	7.4	6.7	3.2	5.5	
Suspended Solids (mg/l)		9.0	165	230	208	105	17.0	11.0	
Total Kjeldal Nitrogen (mg N/l)		1.45	2.49	2.68	2.10	1.91	1.75	0.79	
Total Phosphorus (mg P/l)		0.11	0.81	0.95	1.05	0.82	0.29	0.21	
Fecal Coliform/100ml		1.2K	5.8K	10.9K	8.7K	6.2K	4.5K	2.1K	
Metals mg/l	Cd	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Cu	0.036	0.036	0.042	0.026	0.042	0.023	0.039	
	Fe	12.86	(16.139)	14.50	5.424	3.280	1.361	2.694	
	Mn	0.464	0.378	0.229	0.239	0.148	0.189	0.209	
	Zn	0.121	0.131	0.115	0.077	0.054	0.083	0.123	

(72)

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. Ar 1011 Location Old Forge @ Coachlite Rd.

Event Date 10/28/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		10/28	10/28	10/28	10/28	10/28	10/28	10/28	
Time		21:40	21:50	22:05	22:35	22:55	23:15	23:50	
Stage Reading									
Discharge CFS									
Temperature of Water (°C)		16	16	16	16	16	16	16	
Dissolved Oxygen (mg/l)		8.6	8.9	9.2	8.6	8.5	8.8	9.0	
pH		7.21	6.65	6.75	6.86	6.75	6.81	6.92	
Specific Conductance (umhos)		108	95	60	64	96	107	103	
BOD_5 (mg/l)		4.2	4.1	9.0	8.2	8.1	6.3	4.9	
Suspended Solids (mg/l)		5.0	31	142	89.0	63.0	28.5	11.0	
Total Kjeldal Nitrogen (mg N/l)		1.25	1.27	2.35	2.10	1.75	1.15	1.65	
Total Phosphorus (mg P/l)		0.21	0.19	0.27	0.39	0.21	0.27	0.19	
Fecal Coliform/100ml		1.1K	8.7K	10.9K	10.1K	2.1K	2.0K	1.3K	
Metals mg/l	Cu	<0.010	0.029	.021	.017	.031	<.010	<010	
	Fe	2.180	3.425	7.180	2.950	3.810	2.150	2.370	
	Zn	0.075	0.135	0.105	0.125	0.011	0.065	0.035	

(73) NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. Ar 1230 Location Old Forge @ Brechenridge Park

Event Date 10/28/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		10/28	10/28	10/28	10/28	10/28	10/28	10/28	
Time		21:45	22:00	22:15	22:45	23:05	23:30	23:55	
Stage Reading		7'7"	6'11"	6'6"	6'9"	7'1"	7'4"	7'6"	
Discharge CFS									
Temperature of Water (°C)		16	16	16	16	16	16	16	
Dissolved Oxygen (mg/l)		8.9	9.1	9.0	8.9	8.9	9.1	9.1	
pH		7.15	6.76	6.82	6.79	6.68	6.96	6.81	
Specific Conductance (umhos)		110	85	75	80	110	95	105	
BOD_5 (mg/l)		3.2	5.1	8.9	8.8	7.1	6.5	4.2	
Suspended Solids (mg/l)		4.5	73	98	76	65	21	10.5	
Total Kjeldal Nitrogen (mg N/l)		1.15	1.35	2.05	1.65	1.80	1.25	1.45	
Total Phosphorus (mg P/l)		0.15	0.15	0.35	0.28	0.29	0.21	0.21	
Fecal Coliform/100ml		1.5K	9.9K	10.1K	8.5K	3.0K	3.5K	2.3K	
Metals mg/l	Cu	.025	.031	.029	.015	.017	<0.010	<0.010	
	Fe	1.785	3.135	5.120	2.975	1.875	2.245	1.980	
	Zn	0.035	0.110	0.095	0.075	0.080	0.080	0.025	

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No Ar 1020 Location Rock Creek @ West Markham

Event Date 11/19/82

Sample Number	1	2	3	4	5	6	7	Composite
Date Sampled	11/19	11/19	11/19	11/19	11/19	11/19	11/19	
Time	08:40	10:05	10:30	12:20	13:05	14:45	16:55	
Stage Reading	13'4"	13'2"	12'11	13'1"	13'2"	13'2"	13'3"	
Discharge CFS	30	55	108	85	55	55	40	
Temperature of Water (°C)	16	16	16	16	16	16	16	
Dissolved Oxygen (mg/l)	8.7	8.5	8.7	9.0	8.8	8.6	8.7	
pH	6.77	6.78	6.59	6.67	6.68	6.71	6.70	
Specific Conductance (umhos)	83	55	44	51	43	72	65	
BOD_5 (mg/l)	2.8	6.5	5.8	7.1	6.7	6.8	4.1	
Suspended Solids (mg/l)	285	340	304	182	178	113	66	
Total Kjeldal Nitrogen (mg N/l)	1.78	1.65	1.95	1.59	1.63	1.61	1.85	
Total Phosphorus (mg P/l)	0.11	0.14	0.19	0.28	0.21	0.25	0.17	
Fecal Coliform/100ml	1.4K	1.0K	2.3K	3.1K	2.7K	1.2K	1.9K	
Metals mg/l Cu	0.017	0.033	0.021	0.026	0.031	0.028	0.018	
Fe	5.275	6.739	5.455	3.496	2.935	3.183	2.187	
Zn	<0.020	<0.020	<0.020	<.020	<0.020	<0.020	<0.020	

(75) NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. Ar 1040 Location Rock Creek @ 36th

Event Date 11/19/82

Sample Number	1	2	3	4	5	6	7	Composite
Date Sampled	11/19	11/19	11/19	11/19	11/19	11/19	11/19	
Time	09:25	10:45	11:45	13:50	15:25	16:15	18:05	
Stage Reading	3.80	4.20	4.85	4.05	3.85	3.63	3.59	
Discharge CFS	130	215	410	180	135	95	90	
Temperature of Water (°C)	14.5	15	15	15	16	16	16	
Dissolved Oxygen (mg/l)	9.4	8.9	9.1	9.1	8.9	8.9	8.8	
pH	6.41	6.55	6.58	6.66	6.71	6.65	6.74	
Specific Conductance (umhos)	65	62	48	56	76	68	95	
BOD_5 (mg/l)	2.3	8.1	8.0	8.4	7.6	5.2	4.9	
Suspended Solids (mg/l)	112	108	226	138	128	97	39	
Total Kjeldal Nitrogen (mg N/l)	1.09	1.52	1.65	1.43	1.79	1.35	1.25	
Total Phosphorus (mg P/l)	0.24	0.19	0.21	0.16	0.15	0.16	0.19	
Fecal Coliform/100ml	16k	21k	18k	7.5k	8.4k	9.1k	3.2k	
Metals mg/l Cu	0.026	0.018	0.068	0.033	0.015	0.020	<0.010	
Fe	2.368	3.496	6.315	3.835	3.350	5.451	2.950	
Zn	<0.020	0.028	0.036	0.052	0.049	0.038	0.025	

NATIONAL URBAN RUNOFF PROGRAM

(7L)

Rainfall Event

Station No. Ar 1210 Location Rock Creek @ Shackleford Rd.

Event Date 11/19/82

Sample Number		1	2	3	4	5	6	7	Composite
Date Sampled		11/19	11/19	11/19	11/19	11/19	11/19	11/19	
Time		08:45	10:00	10:25	12:15	13:10	14:50	16:15	
Stage Reading		11'9"	11'8"	11'6"	11'7"	11'7"	11'7"	11'8"	
Discharge CFS		25	40	80	55	55	55	40	
Temperature of Water (°C)		16	16	16	16	16	16	16	
Dissolved Oxygen (mg/l)		8.9	9.2	9.3	8.8	9.0	9.1	8.9	
pH		6.86	6.71	6.53	6.81	6.72	6.61	6.74	
Specific Conductance (umhos)		75	50	53	61	54	73	101	
BOD_5 (mg/l)		2.5	8.3	6.4	7.3	7.1	5.3	5.7	
Suspended Solids (mg/l)		159	218	180	161	131	142	79	
Total Kjeldal Nitrogen (mg N/l)		1.15	1.63	1.97	1.73	1.82	1.75	1.69	
Total Phosphorus (mg P/l)		0.21	0.19	0.13	0.09	0.17	0.13	0.16	
Fecal Coliform/100ml		4.5K	9.8K	1.5K	9.8K	7.2K	6.5K	6.7K	
Metals mg/l	Cu	0.021	0.026	0.020	0.017	0.015	<0.010	<0.010	
	Fe	3.525	4.850	5.526	5.142	2.955	3.125	2.015	
	Zn	<0.020	0.030	<0.020	<0.020	<0.020	<0.020	<0.020	

(71) NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No. Ar 1220 Location Rock Creek @ Boyle Park

Event Date 11/19/82

Sample Number	1	2	3	4	5	6	7	Composite
Date Sampled	11/19	11/19	11/19	11/19	11/19	11/19	11/19	
Time	09:15	09:40	10:35	12:00	13:30	15:10	16:25	
Stage Reading	8'1"	7'9"	6'3"	6'8"	7'6"	7'10"	8'4"	
Discharge CFS								
Temperature of Water (°C)	15	15	15	16	16	16	16	
Dissolved Oxygen (mg/l)	8.9	9.1	8.9	9.0	8.8	9.0	8.8	
pH	6.56	6.76	6.73	6.89	6.70	6.65	6.69	
Specific Conductance (umhos)	79	85	61	56	58	70	72	
BOD_5 (mg/l)	1.9	4.5	8.6	7.3	7.9	5.4	3.2	
Suspended Solids (mg/l)	21.0	158	196	210	134	121	97	
Total Kjeldal Nitrogen (mg N/l)	1.51	1.23	1.85	1.72	1.73	1.65	1.51	
Total Phosphorus (mg P/l)	0.08	0.16	0.07	0.09	0.14	0.12	0.15	
Fecal Coliform/100ml	6.5K	14K	30K	17K	12.8K	10.1K	8.0K	
Metals mg/l Cu	0.021	0.033	0.035	0.026	0.041	0.029	0.047	
Fe	1.980	2.970	4.361	5.150	4.060	3.215	2.556	
Zn	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	

(78)

NATIONAL URBAN RUNOFF PROGRAM

Rainfall Event

Station No Ar1310 Location Rock Creek @ I-630

Event Date 11/19/82

Sample Number	1	2	3	4	5	6	7	Composite
Date Sampled	11/19	11/19	11/19	11/19	11/19	11/19	11/19	
Time	09:00	09:55	10:20	12:05	13:20	15:00	16:40	
Stage Reading	21'11"	21'9"	21'2"	21'7"	22'2"	22'4"	22'8"	
Discharge CFS								
Temperature of Water (°C)	15	16	16	16	16	16	16	
Dissolved Oxygen (mg/l)	9.0	8.9	9.2	8.6	8.8	9.1	8.6	
pH	6.75	6.77	6.96	6.81	6.73	6.61	6.56	
Specific Conductance (umhos)	85	51	48	65	64	79	84	
BOD_5 (mg/l)	1.9	7.1	5.9	8.1	7.8	6.5	7.1	
Suspended Solids (mg/l)	85	179	129	182	144	112	87	
Total Kjeldal Nitrogen (mg N/l)	1.10	1.25	1.95	1.35	1.76	1.62	1.58	
Total Phosphorus (mg P/l)	0.07	0.14	0.08	0.18	0.23	0.19	0.13	
Fecal Coliform/100ml	8.0K	14K	22.6K	28K	21K	12K	8.8K	
Metals mg/l Cu	<0.010	0.024	0.029	0.020	0.026	<0.010	<0.010	
Fe	2.185	3.158	4.023	4.511	3.684	2.950	2.230	
Zn	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	

Note: Under the heading "Comp" there are two columns which are the composite value and the event mean concentration (EMC) value respectively..

NURP	STA.	AR	1022	10/23/81				COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	635	658	685	773	847	945	1086		
DISC.	0	5	13	13	5	2	0		
BOD	7.5	8.9	6.7	4	4.3	4.5	3.2		
COD									
S.S.	89.5	262	100.5	51	32	22.5	16		
TKN	2.57	1.85	1.11	1.2	.79	1.13	.98		
TP	.6	.49	.28	.28	.35	.29	.27		
PB									
ZN									
CR									
AL									
"K"	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4		
VOLUME	.025806	.109058	.513427	.298900	.153938	.063281		1.16441	
BOD #'S	1.76482	7.09446	22.9086	10.3452	5.64892	2.03188		49.7939	5.12748
COD #'S	0	0	0	0	0	0		0	0
S.S. #'S	37.8252	164.855	324.360	103.452	34.9848	10.1594		675.637	69.5731
TKN #'S	.475640	1.34613	4.94568	2.48037	1.23249	.556788		11.0371	1.13653
TP #'S	.117296	.350175	1.19895	.785241	.410830	.147773		3.01027	.309980

NURP	STA.	AR	1033	10/23/81				COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	630	653	675	770	840	940	1080		
DISC.	190	230	230	225	190	190	160		
BOD	7.2	6.3	5.4	5.5	7.6	5.9	2.9		
COD									
S.S.	105	51.5	35	33.7	27.4	25	24.5		
TKN	1.69	1.19	1.13	1.4	1.43	1.29	.98		
TP	.46	.36	.43	.41	.25	.34	.39		
PB									
ZN									
CR									
AL									
"K"	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4		
VOLUME	2.16770	2.27093	9.69968	6.51881	8.52719	10.9956		40.1799	
BOD #'S	122.031	110.796	440.879	356.103	480.038	403.494		1913.34	5.70976
COD #'S	0	0	0	0	0	0		0	0
S.S. #'S	1414.65	819.134	2778.75	1660.91	1863.26	2269.65		10806.4	32.2481
TKN #'S	26.0332	21.9698	102.333	76.9292	96.7188	104.083		428.067	1.27743
TP #'S	7.41224	7.48111	33.9760	17.9411	20.9794	33.4717		121.262	.361866

NURP	STA.	AR	1240	10/23/81					COMP
SAMP#		1	2	3	4	5	6	7	
TIME		645	665	692	779	855	952	1092	
DISC.		107	145	174	185	145	139	107	
BOD		6.3	6.6	6.4	7.8	5.1	4.5	3.5	
COD									
S.S.		41	83.5	54.5	82.5	61	34.5	19.5	
TKN		1.08	1.14	1.25	1.09	.98	.8	1.09	
TP		.24	.35	.26	.37	.3	.38	.28	
PB									
ZN									
CR									
AL									
"K"		4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	
VOLUME		1.13097	1.93275	7.00868	5.62795	6.18176	7.72833		29.6104
BOD #'S		60.8385	104.775	415.012	302.744	247.468	257.817		1388.65 5.62320
COD #'S		0	0	0	0	0	0		0 . 0
S.S. #'S		587.162	1112.22	4003.99	3367.73	2461.79	1740.26		13273.2 53.7482
TKN #'S		10.4699	19.2624	68.3893	48.5799	45.8848	60.9093		253.495 1.02650
TP #'S		2.78254	4.91635	18.4125	15.7239	17.5290	21.2699		80.6342 .326519

NURP	STA.	AR	1022	11/22/81				COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	880	920	935	945	955	975	1015		
DISC.	58	145	176	93	79	65	53		
BOD	5.7	6.9	9.9	8.6	7.9	6.4	4.7		
COD									
S.S.	138	654	372	206	148	128	98		
TKN	1.17	3.76	2.33	2.47	2.01	1.62	1.51		
TP	.46	2.02	.86	1.05	.95	.59	.41		
PB									
ZN									
CR									
AL									
"K"	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4		
VOLUME	1.82213	1.08048	.603635	.385968	.646271	1.05917		5.59765	
BOD #'S	95.7381	75.6944	46.5674	26.5565	38.5378	49.0257		332.120	7.11415
COD #'S	0	0	0	0	0	0		0	0
S.S. #'S	6017.83	4622.77	1454.92	569.758	743.806	998.180		14407.3	308.610
TKN #'S	37.4594	27.4392	12.0824	7.21049	9.78267	13.8244		107.799	2.30909
TP #'S	18.8437	12.9762	4.80777	3.21897	4.15022	4.41673		48.4136	1.03704

NURP STA. AR 1033 11/22/81 COMP

SAMP#	1	2	3	4	5	6	7		
TIME	850	870	910	930	950	970	995		
DISC.	170	230	340	300	235	225	183		
BOD	8.9	9.5	12.8	8.6	7.1	5.7	6.1		
COD									
S.S.	217	336	620	290	159	31	17		
TKN	2.09	2.48	3.72	2.52	2.27	1.97	.87		
TP	.47	.52	.78	1.29	.8	.47	.21		
PB									
ZN									
CR									
AL									
"K"	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4		
VOLUME	1.79520	5.11631	2.87232	2.40108	2.06448	2.28888		16.5383	
BOD #'S	137.742	475.771	256.320	157.196	110.194	112.626		1249.85	9.06153
COD #'S	0	0	0	0	0	0		0	0
S.S. #'S	4139.74	20396.3	10899.6	4495.61	1635.69	458.142		42025.0	304.686
TKN #'S	34.2109	132.277	74.7400	47.9598	36.5016	27.1067		352.796	2.55781
TP #'S	7.41112	27.7355	24.7935	20.9261	10.9333	6.49034		98.2899	.712612

NURP STA. AR 1240 11/22/8								COMP
SAMP#	1	2	3	4	5	6	7	
TIME	890	900	920	940	960	985	1055	
DISC.	0	25	396	309	282	193	51	
BOD	7.4	9.5	10.5	8.5	6.3	6.1	4.6	
COD								
S.S.	115	175	334	337	331	282	117	
TKN	1.44	1.91	2.43	2.03	3.17	1.58	1.09	
TP	.19	.53	1.79	.75	.62	.72	.53	
PB								
ZN								
CR								
AL								
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	
VOLUME	.05610	1.8894	3.1640	2.6524	2.6647	3.8327		14.259
BOD #'S	3.9535	157.58	250.69	163.70	137.79	171.01		884.72 7.4394
COD #'S	0	0	0	0	0	0		0 0
S.S. #'	67.842	4010.4	8853.2	7388.4	6811.7	6377.0		33509. 281.76
TKN #'S	.78369	34.195	58.845	57.515	52.782	42.673		246.79 2.0752
TP #'S	.16843	18.279	33.513	15.153	14.890	19.978		101.98 .85754

NURP STA. AR 1022 1/2/82

SAMP#	1	2	3	4	5	6	7	COMP
TIME	755	790	820	840	905	935	990	
DISC.	53	93	176	58	7	2	0	
BOD	10.2	11.9	11.4	11	6.9	5.8	5.4	
COD								
S.S.	209	295	382	230	55	38	18	
TKN	1.67	1.97	2.33	1.93	1.1	.87	.8	
TP	.79	.87	1.03	1.48	.47	.31	.25	
PB								
ZN								
CR								
AL								
"K"	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	
VOLUME	1.14668	1.81091	1.05019	.948089	.060588	.024684		5.04114
BOD #'S	105.675	175.949	98.0962	70.7682	3.20868	1.15284		454.850 10.8187
COD #'S	0	0	0	0	0	0		0 0
S.S. #'S	2409.96	5112.35	2680.13	1126.76	23.4966	5.76420		11358.5 270.162
TKN #'S	17.4053	32.4714	18.6558	11.9792	.497724	.171897		81.1812 1.93090
TP #'S	7.93757	14.3478	10.9920	7.70938	.197068	.057642		41.2415 .980934

NURP STA. AR 1033 1/2/82 COMP

SAMP#	1	2	3	4	5	6	7		
TIME	750	780	815	835	900	940	1000		
DISC.	228	254	320	225	183	162	160		
BOD	9.2	10.5	8.8	8.4	11.4	7.6	7.5		
COD									
S.S.	98	153	176	90	38	33	17		
TKN	1.15	1.09	.93	1.45	1.26	1.4	1		
TP	.61	.89	.66	.35	.27	.44	.44		
PB									
ZN									
CR									
AL									
"K"	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4	4.49E-4		
VOLUME	3.24482	4.50819	2.44596	5.95108	3.09672	4.33540		23.5822	
BOD #'S	266.559	362.824	175.434	491.357	245.353	272.987		1814.51	9.22593
COD #'S	0	0	0	0	0	0		0	0
S.S. #'S	3396.26	6184.92	2713.10	3176.45	916.845	903.931		17291.5	87.9191
TKN #'S	30.3092	37.9743	24.2751	67.2514	34.3494	43.3887		237.548	1.20782
TP #'S	20.2963	29.1387	10.3016	15.3859	9.16845	15.9092		100.200	.509470

NURP STA. AR 1240 1/2/82								COMP
SAMP#	1	2	3	4	5	6	7	
TIME	765	800	825	845	910	950	1005	
DISC.	193	240	308	193	107	78	64	
BOD	12.1	15.5	11.3	11.2	10.7	10.2	10.5	
COD								
S.S.	115	275	283	268	115	97	78	
TKN	1.78	2.19	2.42	1.89	1.45	1.22	1.16	
TP	.57	.78	.67	.7	.34	.44	.43	
PB								
ZN								
CR								
AL								
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	
VOLUME	3.4008	3.0743	2.2485	4.3758	1.6606	1.7526		16.512
BOD #'S	391.40	343.57	210.96	399.61	144.72	151.28		1641.5 11.920
COD #'S	0	0	0	0	0	0		0 0
S.S. #'	5530.7	7153.4	5166.3	6988.6	1468.0	1278.9		27586. 200.31
TKN #'S	56.300	59.099	40.411	60.945	18.488	17.393		252.64 1.8345
TP #'S	19.145	18.589	12.845	18.977	5.4011	6.3581		81.315 .59046

NURP	STA.	AR	1020	1/22/82				COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	945	1042	1115	1310	1425	1490	2160		
DISC.	55	125	245	180	155	125	25		
BOD	4.2	4.2	3	5.1	4.1	2.8	1.9		
COD									
S.S.	8.5	631.4	258	173.3	85	95	100		
TKN	.85	1.51	1.06	1.52	.68	.65	.76		
TP	.1	.26	.2	.54	.22	.19	.09		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	3.9180	6.0610	18.597	8.6450	4.0841	22.552		63.857	
BOD #'S	137.24	181.98	628.16	331.66	117.51	442.00		1838.5	3.4522
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	10455.	22479.	33447.	9311.6	3065.5	18338.		97097.	182.32
TKN #'S	38.558	64.956	200.08	79.309	22.651	132.60		538.15	1.0105
TP #'S	5.8817	11.626	57.387	27.398	6.9825	26.332		135.61	.25463

NURP STA. AR 1040 1/22/82 COMP

SAMP#	1	2	3	4	5	6	7		
TIME	985	1010	1070	1260	1380	1535	2182		
DISC.	70	100	525	385	275	190	85		
BOD	3	5.2	5.8	3.9	4.9	3.8	2.9		
COD									
S.S.	13	70	676	330	150	97	19		
TKN	.78	1.06	2.59	1.32	1.18	.95	.7		
TP	.14	.13	.45	.33	.2	.13	.12		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	.95370	8.4150	38.799	17.772	16.174	39.926		122.04	
BOD #'S	32.611	386.00	1569.4	652.18	586.76	1115.5		4342.4	4.2664
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	330.08	26178.	162761	35573.	16659.	19313.		260814	256.25
TKN #'S	7.3175	128.08	632.60	185.28	143.66	274.71		1371.6	1.3476
TP #'S	1.0738	20.352	126.20	39.279	22.257	41.623		250.78	.24639

NURP STA. AR 1210 JAN 22,1982 COMP

SAMP#	1	2	3	4	5	6	7		
TIME	955	1040	1110	1300	1415	1499	2145		
DISC.	25	75	165	100	75	70	35		
BOD	3.5	5.5	4.2	5.1	3.3	4.2	3		
COD									
S.S.	12.5	378	354	215	130	131	111		
TKN	.69	1.26	1.26	1.79	1.1	.91	.96		
TP	.13	.27	.26	.57	.3	.25	.12		
CD	.01	.01	.01	.01	.01	.01	.01		
ZN	.11	.127	.08	.15	.09	.033	.037		
CU	.035	.045	.02	.04	.04	.02	.01		
FE	3.73	13.6	22	13.9	10.8	4.9	4.5		
"K"	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4		
VOLUM	1.91	3.77	11.3	4.52	2.73	15.2		39.4	
BOD #	71.6	152.	438.	158.	85.5	457.		1363	4.14
COD #	0	0	0	0	0	0		0	0
S.S.	3106	1.E4	3.E4	6497	2975	2.E4		7.E4	201.
TKN #	15.5	39.6	144.	54.4	22.9	119.		395.	1.20
TP #'	3.18	8.33	39.1	16.4	6.27	23.5		96.8	.294
CD #'	.159	.314	.942	.377	.228	1.27		3.29	.01
ZN #'	1.89	3.25	10.8	4.52	1.40	4.44		26.3	.080
CU #'	.636	1.02	2.83	1.51	.684	1.90		8.58	.026
FE #'	138.	560.	1691	465.	179.	597.		3629	11.0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34		

NURP STA. AR 1220 1/22/82 COMP

SAMP#	1	2	3	4	5	6	7		
TIME	975	1020	1090	1280	1400	1525	2205		
DISC.	55	91	405	265	207	150	68		
BOD	2.9	5.6	5.2	3.6	4.3	3.9	2.8		
COD									
S.S.	14.7	354	850	382	168	109	43		
TKN	.88	1.37	2.89	1.34	1.65	.95	.69		
TP	.12	.24	.59	.28	.38	.29	.08		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	1.4743	7.7912	28.566	12.710	10.014	33.265		93.820	
BOD #'S	52.257	350.88	1048.3	418.71	342.41	929.39		3141.9	4.0154
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	2266.7	39117.	146757	29150.	11567.	21085.		249942	319.43
TKN #'S	13.833	138.40	503.88	158.47	108.57	227.49		1150.7	1.4706
TP #'S	2.2132	26.966	103.63	34.980	27.978	51.325		247.10	.31579

NURP STA. AR 1310 1/22/82 COMP

SAMP#	1	2	3	4	5	6	7		
TIME	965	1030	1100	1290	1410	1510	2130		
DISC.	40	83	285	170	141	110	52		
BOD	5.6	8.4	7.5	3.7	4.6	3	2.4		
COD									
S.S.	40.7	1368	536	168	164	112	65		
TKN	.96	1.09	1.9	.88	1.44	.95	.72		
TP	.16	.6	.35	.27	.36	.21	.11		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	1.7941	5.7805	19.399	8.3746	5.6324	22.539		63.520	
BOD #'S	104.74	383.27	906.03	289.85	178.50	507.53		2369.9	4.4736
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	10539.	45896.	56950.	11594.	6482.5	16636.		148097	279.56
TKN #'S	15.337	72.073	224.89	81.019	56.135	156.96		606.41	1.1447
TP #'S	5.6858	22.900	50.155	22.001	13.388	30.076		144.20	.27221

NURP	STA.	AR	1040	1/29/82				COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	1198	1230	1260	1312	1470	2160	2415		
DISC.	310	1675	3175	3825	1925	280	190		
BOD	6.1	6.7	5.5	4.8	3.9	4.2	3.8		
COD									
S.S.	61	482	1106	894	395	80	41		
TKN	1.09	2.57	4	3.51	1.21	1.03	.68		
TP	.25	.54	.76	.94	.75	.2	.18		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	14.254	32.650	81.682	203.87	341.41	26.894		700.76	
BOD #'S	760.81	1661.0	3508.3	7396.1	11532.	897.19		25755.	4.4069
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	32275.	216208	681224	1.10E6	676254	13570.		2.72E6	464.61
TKN #'S	217.55	894.51	2558.0	4012.6	3189.1	191.78		11063.	1.8930
TP #'S	46.957	177.00	579.04	1436.7	1352.5	42.617		3634.8	.62194

NURP STA. AR 1220 1/29/82 COMP

SAMP#	1	2	3	4	5	6	7		
TIME	1150	1210	1295	1330	1490	2145	2400		
DISC.	243	1525	2550	1210	484	100	0		
BOD	7.9	6.1	3.9	3.3	2.9	3.2	4.2		
COD									
S.S.	385	1426	678	297	152	134	45		
TKN	2.35	4.6	2.32	1.92	1.51	1.07	.72		
TP	.78	1.07	.6	.54	.39	.17	.16		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	23.804	77.726	29.531	60.821	85.837	5.7222		283.44	
BOD #'S	1389.7	3241.2	886.64	1572.5	2183.4	176.58		9450.0	3.9976
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	179767	681947	120066	113878	102371	4271.2		1.20E6	508.61
TKN #'S	689.88	2242.9	522.13	869.93	923.49	42.712		5291.1	2.2383
TP #'S	183.64	541.28	140.38	235.87	200.45	7.8743		1309.5	.55395

NURP STA. AR 1310 1/29/82 COMP

SAMP#	1	2	3	4	5	6	7		
TIME	1140	1183	1280	1430	2185	2390	2550		
DISC.	300	550	625	500	175	100	70		
BOD	6.3	6.5	6.45	6.54	6.38	6.42	6.57		
COD									
S.S.	455	1614	698	281	56	48	39		
TKN	2.19	4.38	2.02	1.75	1.45	.68	.51		
TP	.93	1.15	.67	.81	.16	.14	.12		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	8.2018	25.576	37.867	114.36	12.651	6.1037		204.76	
BOD #'S	437.78	1381.1	2051.2	6161.3	675.23	330.63		11037.	6.4633
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	70763.	246579	154591	160709	5486.3	2214.4		640342	374.98
TKN #'S	224.70	682.57	595.31	1526.0	112.36	30.288		3171.3	1.8570
TP #'S	71.139	194.11	233.70	462.57	15.826	6.6176		983.97	.57620

NURP	STA.	AR	1011	2/8/82				COMP
SAMP#	1	2	3	4	5	6	7	
TIME	895	904	915	925	938	963	985	
DISC.	180	200	244	210	199	190	175	
BOD	5.6	6.5	5.7	8.3	6.9	6	6.1	
COD								
S.S.	60.5	89.5	135	138.5	114.5	75	61	
TKN	2.37	1.39	1.18	1.27	1.07	1.17	.95	
TP	.21	.27	.32	.36	.36	.41	.31	
PB								
ZN								
CR								
AL								
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	
VOLUME	.76745	1.0960	1.0188	1.1931	2.1823	1.8019		8.0595
BOD #'S	38.723	55.756	59.476	75.626	117.39	90.920		437.89 6.5147
COD #'S	0	0	0	0	0	0		0 0
S.S. #'	480.04	1026.0	1161.9	1258.8	1724.5	1021.9		6673.1 99.278
TKN #'S	12.033	11.745	10.408	11.642	20.384	15.930		82.143 1.2221
TP #'S	1.5361	2.6964	2.8888	3.5823	7.0071	5.4101		23.121 .34398

NURP STA. AR 1230 2/8/82								COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	900	910	920	932	947	970	990		
DISC.	200	225	260	230	220	210	190		
BOD	8.2	6.5	7	6.1	7	6.3	5.4		
COD									
S.S.	55.5	71	96.5	109	114	76	65		
TKN	1.16	1.12	1.19	1.34	1.19	1.19	1.01		
TP	.2	.22	.22	.23	.3	.36	.29		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	.95370	1.0883	1.3195	1.5147	2.2193	1.7952		8.8907	
BOD #'S	58.461	61.268	72.079	82.743	123.09	87.586		485.22	6.5439
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	503.08	760.18	1130.7	1408.5	1758.4	1055.5		6616.4	89.231
TKN #'S	9.0674	10.484	13.921	15.980	22.026	16.469		87.947	1.1861
TP #'S	1.6703	1.9969	2.4760	3.3476	6.1080	4.8659		20.465	.27600

NURP STA. AR 1040 2/16/82							COMP
SAMP#	1	2	3	4	5	6	7	
TIME	1166	1222	1248	1290	1320	1470	1970	
DISC.	135	590	665	410	295	145	75	
BOD	4	8.4	5.4	4.4	4.2	5.4	3	
COD								
S.S.	48	260	268	206	198	98	14.5	
TKN	1.42	1.68	1.91	1.56	1.39	1.63	.88	
TP	.24	.39	.28	.32	.29	.2	.09	
PB								
ZN								
CR								
AL								
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	
VOLUME	9.1106	7.3222	10.132	4.7461	14.810	24.684		70.805
BOD #'S	471.09	421.36	414.04	170.20	592.89	864.63		2934.2 4.9689
COD #'S	0	0	0	0	0	0		0 0
S.S. #'	11701.	16122.	20026.	7995.6	18281.	11580.		85705. 145.14
TKN #'S	117.77	109.61	146.60	58.384	186.51	258.36		877.25 1.4856
TP #'S	23.935	20.457	25.349	12.073	30.262	29.850		141.93 .24034

HURP STA. AR 1220 2/16/82							COMP	
SAMP#	1	2	3	4	5	6	7	
TIME	1175	1210	1235	1275	1305	1335	1455	
DISC.	250	500	450	200	75	50	0	
BOD	4.6	6.3	4.6	7.4	4	4.2	4.2	
COD								
S.S.	310	244	201	165	106	38	89	
TKN	1.49	1.65	1.59	1.84	1.26	1.1	1.1	
TP	.35	.33	.43	.38	.23	.22	.16	
PB								
ZN								
CR								
AL								
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	
VOLUME	5.8905	5.3295	5.8344	1.8513	.84150	1.3464	21.094	
BOD #'S	267.74	242.24	291.95	88.007	28.774	47.162	965.88	5.4904
COD #'S	0	0	0	0	0	0	0	0
S.S. #'	13608.	9889.7	8904.6	2092.1	505.30	713.04	35713.	203.01
TKN #'S	77.129	72.006	83.450	23.932	8.2814	12.352	277.15	1.5754
TP #'S	16.703	16.890	19.707	4.7091	1.5791	2.1335	61.722	.35085

NURP	STA.	AR 1010		3/14/82				COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	10	30	50	218	283	685	905		
DISC.	13	62	253	208	123	19	16		
BOD	3.7	4.7	4.3	5.3	7	4	2.5		
COD									
S.S.	3	246	328	234	312	12	19		
TKN	2.31	2.49	3.44	1.78	1.59	1.11	.89		
TP	.15	.33	.41	.49	.42	.13	.05		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	.33660	1.4137	17.379	4.8280	12.810	1.7279		38.495	
DOD #'S	11.790	53.057	695.73	247.63	587.58	46.834		1642.6	5.1164
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	349.50	3383.8	40729.	10992.	17307.	223.36		72985.	227.33
TKN #'S	6.7374	34.959	378.30	67.847	144.22	14.411		646.48	2.0136
TP #'S	.67374	4.3625	65.225	18.321	29.379	1.2969		119.26	.37146
PB #'S	0	0	0	0	0	0		0	0
ZN #'S	0	0	0	0	0	0		0	0
CR #'S	0	0	0	0	0	0		0	0
AL #'S	0	0	0	0	0	0		0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34		

NURP	STA.	AR 1020		3/14/82				COMP	
SAMP#		1	2	3	4	5	6	7	
TIME		65	230	298	670	895	1113	2085	
DISC.		55	105	165	130	145	85	30	
BOD		1.5	3	1.2	1.6	4.2	3.4	3.1	
COD									
S.S.		384	260	222	14	13	4.5	3.5	
TKN		1.39	1.17	1.07	.85	.85	.78	.86	
TP		.25	.25	.28	.17	.16	.15	.12	
PB									
ZN									
CR									
AL									
"K"		4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	
VOLUME		5.9242	4.1200	24.626	13.885	11.251	25.083	84.889	
BOD #'S		111.17	72.157	287.53	335.82	356.58	679.89	1843.1	2.6034
COD #'S		0	0	0	0	0	0	0	0
S.S. #'		15909.	8280.9	24235.	1563.3	821.07	836.78	51646.	72.948
TKN #'S		63.242	38.484	197.16	98.429	76.477	171.54	645.33	.91152
TP #'S		12.352	9.1056	46.210	19.107	14.545	28.241	129.56	.18300
PB #'S		0	0	0	0	0	0	0	0
ZN #'S		0	0	0	0	0	0	0	0
CR #'S		0	0	0	0	0	0	0	0
AL #'S		0	0	0	0	0	0	0	0
"K2"		8.34	8.34	8.34	8.34	8.34	8.34	8.34	

NURP	STA.	AR 1210		3/14/82				COMP	
SAMP#		1	2	3	4	5	6	7	
TIME		75	235	305	665	890	1107	2095	
DISC.		62	75	115	75	70	55	35	
BOD		3	3.4	2.2	1.8	6.5	3.2	2.9	
COD									
S.S.		416	456	126	24	61	2	4	
TKN		1.87	1.79	1.91	.71	.94	.64	.58	
TP		.02	.37	.28	.15	.08	.12	.1	
PB									
ZN									
CR									
AL									
"K"		4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	
VOLUME		4.9188	2.9845	15.349	7.3210	6.0868	19.954	56.614	
BOD #'S		131.27	69.694	256.02	253.39	246.21	507.56	1464.1	3.1010
COD #'S		0	0	0	0	0	0	0	0
S.S. #'		17886.	7243.2	9600.8	2594.9	1599.1	499.24	39423.	83.496
TKN #'S		75.072	46.048	167.69	50.372	40.104	101.51	480.80	1.0183
TP #'S		7.9995	8.0895	27.522	7.0216	5.0764	18.305	74.015	.15676
PB #'S		0	0	0	0	0	0	0	0
ZN #'S		0	0	0	0	0	0	0	0
CR #'S		0	0	0	0	0	0	0	0
AL #'S		0	0	0	0	0	0	0	0
"K2"		8.34	8.34	8.34	8.34	8.34	8.34	8.34	

NURP STA. AR 1250			3/14/82					COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	20	40	55	223	273	690	960		
DISC.	20	93	380	310	185	30	24		
BOD	6.9	6	8.4	7.1	4.8	3.1	2.1		
COD									
S.S.	156	162	414	468	164	9	6		
TKN	1.72	1.3	2.83	2.6	1.38	.75	.86		
TP	.18	.22	.34	.31	.32	.17	.05		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	.50714	1.5921	26.012	5.5539	20.119	3.2717		57.056	
BOD #'S	27.281	95.603	1681.3	275.60	662.77	70.945		2813.5	5.9126
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	672.50	3824.1	95672.	14637.	14514.	204.65		129524	272.20
TKN #'S	6.3867	27.420	589.00	92.176	178.70	21.966		915.64	1.9242
TP #'S	.84592	3.7179	70.507	14.591	41.108	3.0015		133.77	.28112
PB #'S	0	0	0	0	0	0		0	0
ZN #'S	0	0	0	0	0	0		0	0
CR #'S	0	0	0	0	0	0		0	0
AL #'S	0	0	0	0	0	0		0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34		

NURP	STA.	AR 1310		3/14/82				COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	85	240	315	655	885	1100	2050		
DISC.	90	350	500	335	210	110	90		
BOD	2.1	8.5	8.7	1.6	3.5	1.5	1.5		
COD									
S.S.	5	385	684	260	150	18	15		
TKN	.71	1.95	3.06	2.05	1.17	.85	.87		
TP	.14	.47	.51	.47	.59	.13	.17		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	15.304	14.305	63.707	28.129	15.439	42.636		179.52	
BOD #'S	676.47	1026.0	2736.3	598.21	321.90	533.38		5892.3	3.9355
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	24889.	63770.	250782	48091.	10816.	5867.1		404215	269.98
TKN #'S	169.76	298.87	1357.5	377.69	130.05	305.80		2639.7	1.7631
TP #'S	38.929	58.461	260.35	124.33	46.353	53.338		581.76	.38857
PB #'S	0	0	0	0	0	0		0	0
ZN #'S	0	0	0	0	0	0		0	0
CR #'S	0	0	0	0	0	0		0	0
AL #'S	0	0	0	0	0	0		0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34		

NURP	STA.	AR 1010		4/1/82				COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	1425	1445	1470	1495	1525	1800	2120		
DISC.	290	350	500	400	320	315	40		
BOD	9	9	9.1	6.9	6.5	7.2	2		
COD									
S.S.	74	147	318	190	150	82	21		
TKN	1.29	1.31	2.47	1.19	1.68	1.82	1.25		
TP	.25	.4	.45	.38	.35	.22	.18		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	2.8723	4.7685	5.0490	4.8470	39.186	25.492		82.214	
BOD #'S	215.60	359.91	336.87	270.84	2238.6	977.97		4399.8	6.4169
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	2647.0	9246.3	10696.	6872.1	37910.	10949.		78320.	114.22
TKN #'S	31.142	75.164	77.059	58.009	571.92	326.34		1139.6	1.6621
TP #'S	7.7854	16.902	17.475	14.755	93.141	42.520		192.58	.28086
PB #'S	0	0	0	0	0	0		0	0
ZN #'S	0	0	0	0	0	0		0	0
CR #'S	0	0	0	0	0	0		0	0
AL #'S	0	0	0	0	0	0		0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34		

NURP	STA.	AR 1250		4/1/82				COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	1435	1460	1480	1510	1540	1840	2135		
DISC.	432	522	750	600	478	470	60		
BOD	9.1	9.5	9.6	9	8.6	7.3	6.4		
COD									
S.S.	158	316	735	184	216	54	21		
TKN	1.45	1.68	2.59	1.09	1.59	1.45	.89		
TP	.28	.45	.65	.45	.33	.28	.2		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	5.3519	5.7087	9.0882	7.2571	63.819	35.085		126.31	
BOD #'S	415.11	454.68	704.90	532.61	4231.4	2004.4		8343.1	7.9199
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	10579.	25019.	34828.	12105.	71854.	10973.		165358	156.97
TKN #'S	69.854	101.65	139.46	81.102	809.02	342.35		1543.4	1.4652
TP #'S	16.292	26.186	41.688	23.604	162.34	70.226		340.33	.32307
PB #'S	0	0	0	0	0	0		0	0
ZN #'S	0	0	0	0	0	0		0	0
CR #'S	0	0	0	0	0	0		0	0
AL #'S	0	0	0	0	0	0		0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34		

NURP	STA.	AR 1210		4/2/82				COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	120	345	370	410	480	655	820		
DISC.	65	70	80	70	62	65	35		
BOD	3.6	5.5	9.8	9	2.3	6.4	2.8		
COD									
S.S.	98	234	160	126	99	38	25		
TKN	1.58	1.68	1.58	1.54	1.45	.95	.89		
TP	.21	.25	.26	.35	.21	.25	.19		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	6.8161	.84150	1.3464	2.0735	4.9873	3.7026		19.767	
BOD #'S	258.65	53.688	105.55	97.703	180.93	142.05		838.58	5.0866
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	9436.5	1382.6	1605.7	1945.4	2849.2	972.71		18192.	110.35
TKN #'S	92.660	11.440	17.517	25.852	49.913	28.409		225.79	1.3696
TP #'S	13.075	1.7896	3.4248	4.8419	9.5666	6.7935		39.491	.23954
PB #'S	0	0	0	0	0	0		0	0
ZN #'S	0	0	0	0	0	0		0	0
CR #'S	0	0	0	0	0	0		0	0
AL #'S	0	0	0	0	0	0		0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34		

NURP	STA.	AR 1022		4/18/82				COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	1395	1425	1435	1443	1460	1520	2122		
DISC.	53	294	253	213	176	145	13		
BOD	6.5	10.5	12.9	11.5	7.9	5.9	6.4		
COD									
S.S.	165	370	338	330	160	85	18		
TKN	1.52	2.15	2.05	1.98	1.75	1.95	1.89		
TP	.34	.42	.39	.46	.38	.31	.2		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	2.3360	1.2275	.83656	1.4840	4.3219	21.344		31.550	
BOD #'S	165.60	119.77	85.119	120.05	248.71	1094.8		1834.0	6.9701
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	5211.5	3623.9	2330.3	3032.2	4415.5	9167.5		27781.	105.58
TKN #'S	35.750	21.498	14.059	23.082	66.683	341.78		502.85	1.9111
TP #'S	7.4033	4.1460	2.9652	5.1980	12.436	45.392		77.540	.29469
PB #'S	0	0	0	0	0	0		0	0
ZN #'S	0	0	0	0	0	0		0	0
CR #'S	0	0	0	0	0	0		0	0
AL #'S	0	0	0	0	0	0		0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34		

NURP	STA.	AR 1033		4/18/82				COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	1405	1430	1438	1447	1475	1510	2132		
DISC.	230	441	372	280	205	190	162		
BOD	9.5	14.5	13.8	8.4	7.5	7.7	5.1		
COD									
S.S.	143	220	246	380	146	132	62		
TKN	1.39	1.65	1.78	1.48	1.59	1.55	1.32		
TP	.13	.15	.47	.56	.33	.39	.28		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	3.7643	1.4595	1.3168	3.0473	3.1023	49.131		61.821	
BOD #'S	376.73	172.24	121.90	202.05	196.64	2622.4		3692.0	7.1607
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	5698.1	2836.1	3437.3	6684.1	3596.4	39746.		61998.	120.25
TKN #'S	47.719	20.875	17.901	39.012	40.621	587.99		754.12	1.4626
TP #'S	4.3952	3.7734	5.6557	11.310	9.3144	137.27		171.72	.33305
PB #'S	0	0	0	0	0	0		0	0
ZN #'S	0	0	0	0	0	0		0	0
CR #'S	0	0	0	0	0	0		0	0
AL #'S	0	0	0	0	0	0		0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34		

NURP	STA.	AR 1240		4/18/82				COMP	
SAMP#		1	2	3	4	5	6	7	
TIME		1415	1433	1440	1451	1480	1530	2144	
DISC.		193	725	775	725	193	145	51	
BOD		10.8	14.5	13.9	11.9	9.3	9.1	8.1	
COD									
S.S.		138	218	320	428	134	81	23	
TKN		1.67	1.95	1.89	1.92	1.59	1.75	1.65	
TP		.15	.13	.21	.31	.19	.19	.26	
PB									
ZN									
CR									
AL									
"K"		4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	
VOLUME		3.7080	2.3562	3.7026	5.9740	3.7924	27.005		46.538
BOD #'S		391.20	279.04	398.35	528.12	290.98	1936.9		3824.6 9.8539
COD #'S		0	0	0	0	0	0		0 0
S.S. #'		5504.6	5286.0	11549.	14000.	3400.0	11712.		51451. 132.56
TKN #'S		55.973	37.729	58.826	87.439	52.819	382.88		675.67 1.7408
TP #'S		4.3294	3.3406	8.0287	12.456	6.0094	50.675		84.839 .21858
PB #'S		0	0	0	0	0	0		0 0
ZN #'S		0	0	0	0	0	0		0 0
CR #'S		0	0	0	0	0	0		0 0
AL #'S		0	0	0	0	0	0		0 0
"K2"		8.34	8.34	8.34	8.34	8.34	8.34	8.34	

NURP STA. AR 1011			5/6/82					
SAMP#	1	2	3	4	5	6	7	COMP
TIME	1310	1321	1360	1371	1395	1452	1530	
DISC.	191	222	417	318	208	189	0	
BOD	5.2	5.9	6.2	7.9	6.9	4.5	3.5	
COD								
S.S.	4	124	296	472	364	202	30	
TKN	1.45	2.09	2.25	2.45	2.39	2.21	1.69	
TP	.25	.51	.59	.65	.55	.2	.35	
PB								
ZN								
CR								
AL								
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	
VOLUME	1.0194	5.5923	1.8143	2.8328	5.0779	3.3081		19.645
BOD #'S	47.187	282.17	106.67	174.83	241.40	110.36		962.61 5.8754
COD #'S	0	0	0	0	0	0		0 0
S.S. #'	544.14	9794.3	5810.3	9875.6	11985.	3200.4		41210. 251.53
TKN #'S	15.049	101.21	35.558	57.174	97.405	53.800		360.19 2.1985
TP #'S	3.2308	25.652	9.3812	14.175	15.881	7.5871		75.908 .46331
PB #'S	0	0	0	0	0	0		0 0
ZN #'S	0	0	0	0	0	0		0 0
CR #'S	0	0	0	0	0	0		0 0
AL #'S	0	0	0	0	0	0		0 0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34	

NURP STA. AR 1230			5/6/82					COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	1315	1328	1363	1376	1405	1457	1540		
DISC.	203	236	442	337	220	200	0		
BOD	4.3	5.7	7.5	8.9	7.1	3.5	2.1		
COD									
S.S.	3.5	128	132	352	258	106	36		
TKN	1.1	2.19	1.65	2.35	2.19	2.05	1.85		
TP	.22	.35	.48	.41	.45	.29	.37		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	1.2806	5.3250	2.2725	3.6247	4.9009	3.7250		21.129	
BOD #'S	53.403	293.11	155.41	241.84	216.63	86.987		1047.4	5.9438
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	702.25	5773.4	4586.5	9220.2	7439.0	2205.7		29927.	169.83
TKN #'S	17.570	85.268	37.905	68.623	86.652	60.580		356.60	2.0237
TP #'S	3.0440	18.430	8.4339	12.999	15.123	10.252		68.282	.38750
PB #'S	0	0	0	0	0	0		0	0
ZN #'S	0	0	0	0	0	0		0	0
CR #'S	0	0	0	0	0	0		0	0
AL #'S	0	0	0	0	0	0		0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34		

NURP	STA.	AR 1011		5/19/82				COMP	
SAMP#	1	2	3	4	5	6	7		
TIME	1170	1210	1230	1240	1268	1400	1540		
DISC.	85	220	310	275	178	103	85		
BOD	2.2	6	17	7.3	6.6	3.9	2.3		
COD									
S.S.	7	102	276	206	68	12	7		
TKN	1.51	2.65	2.71	1.98	1.95	1.7	.83		
TP	.13	.78	1.08	1.29	.71	.31	.25		
PB									
ZN									
CR									
AL									
"K"	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4		
VOLUME	2.7377	2.3786	1.3127	2.8463	8.3234	5.9062		23.505	
BOD #'S	93.612	228.14	133.02	164.98	364.44	152.70		1136.9	5.7995
COD #'S	0	0	0	0	0	0		0	0
S.S. #'	1244.4	3749.4	2638.5	3252.1	2776.7	467.95		14129.	72.075
TKN #'S	47.491	53.165	25.674	46.645	126.69	62.311		361.97	1.8465
TP #'S	10.389	18.449	12.974	23.738	35.403	13.792		114.74	.58534
PB #'S	0	0	0	0	0	0		0	0
ZN #'S	0	0	0	0	0	0		0	0
CR #'S	0	0	0	0	0	0		0	0
AL #'S	0	0	0	0	0	0		0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34		

NURP	STA.	AR 1230		5/19/82				COMP
SAMP#		1	2	3	4	5	6	7
TIME		1175	1215	1235	1245	1271	1404	1545
DISC.		90	236	330	290	190	110	90
BOD		2	6.9	11	7.4	6.7	3.2	5.5
COD								
S.S.		9	165	230	208	105	17	11
TKN		1.45	2.49	2.68	2.1	1.91	1.75	.79
TP		.11	.81	.95	1.05	.82	.29	.21
PB								
ZN								
CR								
AL								
"K"		4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4	4.5E-4
VOLUME		2.9262	2.5402	1.3913	2.8005	8.9535	6.3281	24.940
BOD #'S		108.60	189.61	106.75	164.66	369.63	229.58	1168.8 5.6194
COD #'S		0	0	0	0	0	0	0 0
S.S. #'		2123.2	4184.1	2541.1	3655.3	4555.0	738.87	17798. 85.566
TKN #'S		48.076	54.764	27.732	46.829	136.65	67.026	381.08 1.8321
TP #'S		11.226	18.643	11.603	21.838	41.443	13.194	117.95 .56706
PB #'S		0	0	0	0	0	0	0 0
ZN #'S		0	0	0	0	0	0	0 0
CR #'S		0	0	0	0	0	0	0 0
AL #'S		0	0	0	0	0	0	0 0
"K2"		8.34	8.34	8.34	8.34	8.34	8.34	8.34

NURP STA. AR 1011 OCT 28,1982 COMP

SAMP#	1	2	3	4	5	6	7		
TIME	1300	1310	1325	1355	1375	1395	1430		
DISC.	90	165	250	200	130	100	95		
BOD	4.2	4.1	9	8.2	8.1	6.3	4.9		
COD									
S.S.	5	31	142	89	63	28.5	11		
TKN	1.25	1.27	2.35	2.1	1.75	1.15	1.65		
TP	.21	.19	.27	.39	.21	.27	.19		
CU	.01	.029	.021	.017	.031	.01	.01		
ZN	.075	.135	.105	.125	.01	.065	.035		
FE	2.18	3.43	7.18	2.95	3.81	2.15	2.37		
AL									
"K"	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4		
VOLUM	.572	1.40	3.03	1.48	1.03	1.53		9.04	
BOD #	19.8	76.3	217.	101.	62.0	71.5		548.	7.26
COD #	0	0	0	0	0	0		0	0
S.S.	85.9	1008	2918	939.	394.	252.		5597	74.2
TKN #	6.01	21.1	56.2	23.8	12.5	17.9		137.	1.82
TP #'	.954	2.68	8.34	3.71	2.07	2.94		20.7	.274
CU #'	.093	.291	.480	.296	.176	.128		1.47	.019
ZN #'	.501	1.40	2.91	.834	.323	.639		6.60	.088
FE #'	13.4	61.8	128.	41.7	25.7	28.9		299.	3.97
AL #'	0	0	0	0	0	0		0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34		

O'N URP STA. AR 1230 OCT 28,1982									COMP
SAMP#	1	2	3	4	5	6	7		
TIME	1305	1320	1335	1365	1385	1410	1435		
DISC.	90	165	250	200	130	100	95		
BOD	3.2	5.1	8.9	8.8	7.1	6.5	4.2		
COD									
S.S.	4.5	73	98	76	65	21	10.5		
TKN	1.15	1.35	2.05	1.65	1.8	1.25	1.45		
TP	.15	.15	.35	.28	.29	.21	.21		
CU	.025	.031	.029	.015	.017	.01	.01		
FE	1.79	3.14	5.12	2.98	1.88	2.25	1.98		
ZN	.035	.11	.095	.075	.08	.08	.025		
AL									
"K"	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4		
VOLUM	.858	1.40	3.03	1.48	1.29	1.09		9.15	
BOD #	29.7	81.6	224.	98.2	73.2	48.8		555.	7.27
COD #	0	0	0	0	0	0		0	0
S.S.	277.	996.	2198	871.	463.	144.		4949	64.9
TKN #	8.95	19.8	46.7	21.3	16.4	12.3		126.	1.64
TP #'	1.07	2.91	7.96	3.52	2.69	1.92		20.1	.263
CU #'	.200	.350	.556	.198	.145	.091		1.54	.020
FE #'	17.6	48.1	102.	30.0	22.2	19.3		239.	3.14
ZN #'	.519	1.19	2.15	.957	.861	.479		6.16	.081
AL #'	0	0	0	0	0	0		0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34		

6.25

NURP STA. AR 1020	NOV.19,1982						COMP	
SAMP#	1	2	3	4	5	6	7	
TIME	520	605	630	740	785	885	1015	
DISC.	30	55	108	85	55	55	40	
BOD	2.8	6.5	5.8	7.1	6.7	6.8	4.1	
COD								
S.S.	285	340	304	182	178	113	66	
TKN	1.78	1.65	1.95	1.59	1.63	1.61	1.85	
TP	.1	.14	.19	.28	.21	.25	.17	
CU	.017	.033	.021	.026	.031	.028	.018	
ZN	.02	.02	.02	.02	.02	.02	.02	
FE	5.27	6.73	5.45	3.49	2.93	3.18	2.19	
AL								
"K"	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4	
VOLUM	1.62	.914	4.76	1.41	2.47	2.77	14.0	
BOD #	62.9	46.9	256.	81.4	139.	126.	712.	6.12
COD #	0	0	0	0	0	0	0	0
S.S.	4225	2456	9655	2122	2995	2069	2.E4	202.
TKN #	23.2	13.7	70.3	19.0	33.4	40.0	200.	1.71
TP #'	1.62	1.26	9.34	2.89	4.73	4.85	24.7	.212
CU #	.338	.206	.934	.336	.607	.532	2.95	.025
ZN #'	.270	.153	.795	.236	.412	.462	2.33	.020
FE #	81.1	46.4	178.	37.8	62.9	62.1	468.	4.02
AL #'	0	0	0	0	0	0	0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34	

19

NURP STA. AR 1040 NOV. 1982

River Mile 1.35

SAMP#	1	2	3	4	5	6	7	COMP	
TIME	565	645	705	830	925	975	1085		
DISC.	130	215	410	180	135	95	90		
BOD	2.3	8.1	8	8.4	7.6	5.2	4.9		
COD									
S.S.	112	108	226	138	128	97	39		
TKN	1.09	1.52	1.65	1.43	1.79	1.35	1.25		
TP	.24	.19	.21	.16	.15	.16	.19		
CU	.026	.018	.068	.033	.015	.02	.01		
ZN	.02	.028	.036	.052	.049	.038	.025		
FE	2.36	3.49	6.35	3.8	3.35	5.41	2.9		
AL									
"K"	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4		
VOLUM	6.19	8.41	16.5	6.72	2.58	4.57		45.0	
BOD #	269.	565.	1132	448.	138.	192.		2743	7.31
COD #	0	0	0	0	0	0		0	0
S.S.	5682	1.E4	3.E4	7449	2421	2590		5.E4	146.
TKN #	67.4	111.	213.	90.2	33.8	49.5		565.	1.50
TP #'	11.1	14.0	25.5	8.68	3.34	6.66		69.4	.185
CU #	1.14	3.02	6.97	1.34	.377	.571		13.4	.036
ZN #'	1.24	2.25	6.07	2.83	.936	1.20		14.5	.039
FE #	151.	345.	700.	200.	94.3	158.		1650	4.39
AL #'	0	0	0	0	0	0		0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34		

5.32

NURP STA. AR 1210			NOV.19,1982				COMP	
SAMP#	1	2	3	4	5	6	7	
TIME	525	600	625	735	790	890	975	
DISC.	25	40	80	55	55	55	40	
BOD	2.5	8.3	6.4	7.3	7.1	5.3	5.7	
COD								
S.S.	159	218	180	161	131	142	79	
TKN	1.15	1.63	1.97	1.73	1.82	1.75	1.69	
TP	.21	.19	.13	.09	.17	.13	.16	
CU	.021	.03	.02	.02	.02	.02	.02	
ZN	.02	.02	.02	.02	.02	.02	.02	
FE	3.53	4.85	5.53	5.14	2.96	3.13	2.02	
AL								
"K"	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4	
VOLUM	1.09	.673	3.33	1.36	2.47	1.81	10.7	
BOD #	49.3	41.3	190.	81.5	128.	83.1	573.	6.40
COD #	0	0	0	0	0	0	0	0
S.S.	1720	1117	4738	1653	2810	1670	1.E4	153.
TKN #	12.7	10.1	51.4	20.1	36.7	26.0	157.	1.75
TP #'	1.82	.898	3.06	1.47	3.09	2.19	12.5	.140
CU #	.233	.140	.556	.226	.412	.302	1.87	.021
ZN #'	.182	.112	.556	.226	.412	.302	1.79	.020
FE #	38.2	29.1	148.	45.8	62.6	38.8	363.	4.05
AL #'	0	0	0	0	0	0	0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34	

1.85

NURP STA. AR 1220 NOV.19,1982 COMP

SAMP#	1	2	3	4	5	6	7		
TIME	555	580	635	720	810	910	985		
DISC.	70	155	300	140	108	81	73		
BOD	1.9	4.5	8.6	7.3	7.9	5.4	3.2		
COD									
S.S.	21	158	196	210	134	121	97		
TKN	1.51	1.23	1.85	1.72	1.73	1.65	1.51		
TP	.08	.16	.07	.09	.14	.12	.15		
CU	.021	.033	.035	.026	.041	.029	.047		
ZN	.02	.02	.02	.02	.02	.02	.02		
FE	1.98	2.97	4.36	5.15	4.06	3.21	2.55		
AL									
"K"	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4		
VOLUM	1.26	5.62	8.39	5.01	4.24	2.59		27.1	
BOD #	33.7	307.	556.	317.	235.	92.9		1543	6.82
COD #	0	0	0	0	0	0		0	0
S.S.	942.	8290	1.E4	7185	4510	2356		4.E4	166.
TKN #	14.4	72.1	125.	72.1	59.8	34.2		377.	1.67
TP #'	1.26	5.39	5.60	4.80	4.60	2.92		24.6	.109
CU #	.284	1.59	2.13	1.40	1.24	.821		7.47	.033
ZN #'	.211	.937	1.40	.835	.707	.432		4.52	.020
FE #	26.1	172.	333.	192.	129.	62.3		914.	4.04
AL #'	0	0	0	0	0	0		0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34		

3.47

NURP STA. AR 1310	NOV.19,1982						COMP	
SAMP#	1	2	3	4	5	6	7	
TIME	540	595	620	725	800	900	1000	
DISC.	60	97	190	96	81	68	57	
BOD	1.9	7.1	5.9	8.1	7.8	6.5	7.1	
COD								
S.S.	85	51	48	65	64	79	84	
TKN	1.1	1.25	1.95	1.35	1.76	1.62	1.58	
TP	.07	.14	.08	.18	.23	.19	.13	
CU	.01	.024	.029	.02	.026	.01	.01	
ZN	.02	.02	.02	.02	.02	.02	.02	
FE	2.19	3.16	4.02	4.51	3.68	2.95	2.23	
AL								
"K"	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4	4E-4	
VOLUM	1.94	1.61	6.74	2.98	3.34	2.80	19.4	
BOD #	72.7	87.3	393.	198.	199.	159.	1109	6.85
COD #	0	0	0	0	0	0	0	0
S.S.	1099	665.	3175	1602	1994	1907	1.E4	64.5
TKN #	19.0	21.5	92.7	38.6	47.1	37.4	256.	1.58
TP #'	1.70	1.48	7.31	5.09	5.86	3.74	25.2	.155
CU #	.275	.356	1.38	.571	.502	.234	3.31	.020
ZN #'	.323	.269	1.12	.497	.558	.468	3.24	.020
FE #	43.2	48.2	240.	102.	92.5	60.6	586.	3.62
AL #'	0	0	0	0	0	0	0	0
"K2"	8.34	8.34	8.34	8.34	8.34	8.34	8.34	

Samples were taken 1/22-23/82 at the following stations:
(Refer to Map Exhibit at front of V.III for locations of stations.)

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Exhibit 4: Summary of Special Metals Sampling

NURP CITY	LITTL[illegible]
AGENCY CODE	224RCITY
SAMPLE POINT DESCRIPTION	ROCK CR @ WEST MARLCHAM
STORET STATION #	AR 1020
STORM EVENT NUMBER	1102
BEGIN DATE/TIME	1-22-82
END DATE/TIME	1-23-82
NAME OF COLLECTOR	JOEY CLARK
ADDRESS	UALR,33RD&UNIV.,LITTLE ROCK.AR
PHONE NUMBER	501-569-3152
DATA MANAGEMENT NAME	SAME AS ABOVE
DATE/TIME COLLECTION	1-22-82 1835
DATE/TIME SHIPPED	1-29-82 1200
ADD SAMPLE DESCRIP	LOW DIS METALS VOL.
PH OF RUNOFF	6.27
TYPE OF SAMPLE	D
COMPOSIT DATE/TIME BEGIN	
COMPOSITE DATE/TIME END	
PARAM TOTAL SAMPLE #	
PARAM TOTAL PRESERVE	Y
PARAM DISSOLVE SAMPLE #	
PARAM DISSOLVED PRESERVE	Y

CONCENTRATION IN MG/L

ELEMENT	TOTAL	TOTAL RECOVERABLE	DISSOLVED
AL	10.300	10.700	0.050
AS	< 0.010	< 0.010	< 0.010
BA	0.070	0.070	0.120
BE	< 0.002	< 0.002	< 0.002
B	< 0.010	< 0.010	0.070
CD	< 0.005	< 0.005	< 0.005
CA	3.000	3.100	2.900
CR	0.020	0.020	< 0.010
CO	< 0.010	< 0.010	< 0.010
CU	0.030	0.030	< 0.020
FE	14.600	15.400	0.060
PB	0.100	0.100	< 0.040
LI	0.010	0.010	< 0.010
MG	2.500	2.600	1.700
MN	0.300	0.310	0.040
HG	0.007		< 0.001
MO	0.010	< 0.010	< 0.010
NI	< 0.020	0.020	< 0.020
K	2.600	2.200	2.000
SE	< 0.010	< 0.010	< 0.010
AG	< 0.010	< 0.010	< 0.010
NA	2.700	2.800	3.600
SR	0.020	0.020	0.020
TL	< 0.010	< 0.010	< 0.010
SN	0.050	< 0.050	< 0.050
TI	0.200	0.280	0.010
V	0.020	0.020	< 0.010
Y	< 0.010	< 0.010	< 0.010
ZN	0.200	0.220	0.060

NURP CITY	LITTLE ROCK
AGENCY CODE	22ARCITY
SAMPLE POINT DESCRIPTION	ROCK CR @ SHACKLEFORD
STORET STATION #	AR 1210
STORM EVENT NUMBER	1111
BEGIN DATE/TIME	1-22-82
END DATE/TIME	1-23-82
NAME OF COLLECTOR	JOEY CLARK
ADDRESS	UALR,33RD&UNIV.,LITTLE ROCK,AR
PHONE NUMBER	501-569-3152
DATA MANAGEMENT NAME	SAME AS ABOVE
DATE/TIME COLLECTION	1-22-82 1830
DATE/TIME SHIPPED	1-29-82 1200
ADD SAMPLE DESCRIP	LOW DIS METALS VOL.
PH OF RUNOFF	6.38
TYPE OF SAMPLE	D
COMPOSIT DATE/TIME BEGIN	
COMPOSITE DATE/TIME END	
PARAM TOTAL SAMPLE #	
PARAM TOTAL PRESERVE	Y
PARAM DISSOLVE SAMPLE #	
PARAM DISSOLVED PRESERVE	Y

CONCENTRATION IN MG/L

ELEMENT	TOTAL	TOTAL RECOVERABLE	DISSOLVED
AL	17.400	12.300	0.100
AS	0.010	< 0.010	< 0.010
BA	0.090	0.080	0.180
BE	< 0.002	< 0.002	< 0.002
B	< 0.010	< 0.010	0.160
CD	< 0.005	< 0.005	< 0.005
CA	3.500	3.500	4.000
CR	0.020	0.020	< 0.010
CO	< 0.010	< 0.010	< 0.010
CU	0.020	0.030	< 0.020
FE	22.000	20.400	0.060
PB	0.040	< 0.040	< 0.040
LI	0.020	0.020	< 0.010
MG	2.700	2.600	1.900
MN	0.580	0.570	0.150
HG	< 0.001		< 0.001
MO	< 0.010	< 0.010	< 0.010
NI	0.020	< 0.020	< 0.020
K	3.300	2.200	2.000
SE	< 0.010	< 0.010	< 0.010
AG	< 0.010	< 0.010	< 0.010
NA	2.800	2.900	4.500
SR	0.030	0.030	0.020
TL	< 0.010	< 0.010	< 0.010
SN	0.050	< 0.050	< 0.050
TI	0.300	0.320	0.010
V	0.030	0.020	< 0.010
Y	< 0.010	< 0.010	< 0.010
ZN	0.080	0.080	0.180[D]

NURP CITY	LITTLE ROCK
AGENCY CODE	22ARCITY
SAMPLE POINT DESCRIPTION	ROCK CR @ I-630
STORET STATION #	AR 1310
STORM EVENT NUMBER	1120
BEGIN DATE/TIME	1-22-82
END DATE/TIME	1-23-82
NAME OF COLLECTOR	JOEY CLARK
ADDRESS	UALR,33RD&UNIV.,LITTLE ROCK,AR
PHONE NUMBER	501-569-3152
DATA MANAGEMENT NAME	SAME AS ABOVE
DATE/TIME COLLECTION	1-22-82 1820
DATE/TIME SHIPPED	1-29-82 1200
ADD SAMPLE DESCRIP	LOW DIS METALS VOL.
PH OF RUNOFF	6.66
TYPE OF SAMPLE	D
COMPOSIT DATE/TIME BEGIN	
COMPOSITE DATE/TIME END	
PARAM TOTAL SAMPLE #	
PARAM TOTAL PRESERVE	Y
PARAM DISSOLVE SAMPLE #	
PARAM DISSOLVED PRESERVE	Y

CONCENTRATION IN MG/L

ELEMENT	TOTAL	TOTAL RECOVERABLE	DISSOLVED
AL	21.700	18.000	0.050
AS	< 0.010	< 0.010	< 0.010
BA	0.120	0.120	0.150
BE	< 0.002	< 0.002	< 0.002
B	< 0.010	< 0.010	0.080
CD	< 0.005	< 0.005	< 0.005
CA	6.100	6.300	5.400
CR	0.030	0.030	< 0.010
CO	< 0.010	0.020	< 0.010
CU	0.040	0.040	< 0.020
FE	31.700	32.700	0.060
PB	0.120	0.100	< 0.040
LI	0.040	0.030	< 0.010
MG	3.900	3.900	1.700
MN	0.890	0.910	0.020
HG	< 0.001		< 0.001
MO	< 0.010	< 0.010	< 0.010
NI	0.040	0.020	< 0.020
K	4.400	3.400	2.600
SE	< 0.010	< 0.010	< 0.010
AG	< 0.010	< 0.010	< 0.010
NA	3.600	3.700	4.300
SR	0.040	0.040	0.030
TL	< 0.010	< 0.010	< 0.010
SN	< 0.050	< 0.050	< 0.050
TI	0.410	0.490	0.010
V	0.030	0.030	< 0.010
Y	< 0.010	< 0.010	0.010
ZN	0.280	0.300	0.040

NURP CITY	LITTLE ROCK
AGENCY CODE	22ARCITY
SAMPLE POINT DESCRIPTION	ROCK CR @ BOYLE PK
STORET STATION #	AR 1220
STORM EVENT NUMBER	1130
BEGIN DATE/TIME	1-22-82
END DATE/TIME	1-23-82
NAME OF COLLECTOR	JOEY CLARK
ADDRESS	UALR,33RD&UNIV.,LITTLE ROCK,AR
PHONE NUMBER	501-569-3152
DATA MANAGEMENT NAME	SAME AS ABOVE
DATE/TIME COLLECTION	1-22-82 2120
DATE/TIME SHIPPED	1-29-82 1200
ADD SAMPLE DESCRIP	LOW DIS METALS VOL.
PH OF RUNOFF	6.68
TYPE OF SAMPLE	D
COMPOSIT DATE/TIME BEGIN	
COMPOSITE DATE/TIME END	
PARAM TOTAL SAMPLE #	
PARAM TOTAL PRESERVE	Y
PARAM DISSOLVE SAMPLE #	
PARAM DISSOLVED PRESERVE	Y

CONCENTRATION IN MG/L

ELEMENT	TOTAL	TOTAL RECOVERABLE	DISSOLVED
AL	8.250	7.100	0.050
AS	< 0.010	< 0.010	< 0.010
BA	0.060	0.050	0.060
BE	< 0.002	< 0.002	< 0.002
B	< 0.010	< 0.010	0.070
CD	< 0.005	< 0.005	< 0.005
CA	5.700	5.700	6.100
CR	0.010	0.010	< 0.010
CO	< 0.010	< 0.010	< 0.010
CU	0.030	0.030	0.090
FE	12.200	12.300	0.170
PB	0.060	0.040	< 0.040
LI	0.010	< 0.010	< 0.010
MG	2.600	2.600	2.100
MN	0.350	0.340	0.040
HG	0.001		< 0.001
MO	< 0.010	< 0.010	< 0.010
NI	< 0.020	< 0.020	< 0.020
K	3.200	2.600	2.800
SE	< 0.010	< 0.010	< 0.010
AG	< 0.010	< 0.010	< 0.010
NA	3.700	3.700	5.800
SR	0.030	0.030	0.030
TL	< 0.010	< 0.010	< 0.010
SN	< 0.050	< 0.050	< 0.050
TI	0.170	0.200	0.010
V	0.010	0.010	< 0.010
Y	< 0.010	< 0.010	< 0.010
ZN	0.200	0.200	0.210

NURP CITY	LITTLE ROCK
AGENCY CODE	22ARCITY
SAMPLE POINT DESCRIPTION	ROCK CR @ 36TH
STORET STATION #	AR 1040
STORM EVENT NUMBER	1139
BEGIN DATE/TIME	1-22-82
END DATE/TIME	1-23-82
NAME OF COLLECTOR	JOEY CLARK
ADDRESS	UALR,33RD&UNIV.,LITTLE ROCK,AR
PHONE NUMBER	501-569-3152
DATA MANAGEMENT NAME	SAME AS ABOVE
DATE/TIME COLLECTION	1-22-82 2100
DATE/TIME SHIPPED	1-29-82 1200
ADD SAMPLE DESCRIP	LOW DIS METALS VOL.
PH OF RUNOFF	6.75
TYPE OF SAMPLE	D
COMPOSIT DATE/TIME BEGIN	
COMPOSITE DATE/TIME END	
PARAM TOTAL SAMPLE #	
PARAM TOTAL PRESERVE	Y
PARAM DISSOLVE SAMPLE #	
PARAM DISSOLVED PRESERVE	Y

CONCENTRATION IN MG/L

ELEMENT	TOTAL	TOTAL RECOVERABLE	DISSOLVED
AL	8.450	9.500	0.050
AS	< 0.010	< 0.010	< 0.010
BA	0.060	0.060	0.120
BE	< 0.002	< 0.002	< 0.002
B	< 0.010	< 0.010	0.070
CD	< 0.005	< 0.005	< 0.005
CA	5.500	5.800	5.700
CR	0.010	0.010	< 0.010
CO	< 0.010	< 0.010	< 0.010
CU	0.030	0.030	< 0.020
FE	12.800	13.400	0.060
PB	0.040	< 0.040	< 0.040
LI	0.010	0.010	< 0.010
MG	2.400	2.500	1.900
MN	0.280	0.290	0.020
HG	< 0.001		< 0.001
MO	< 0.010	< 0.010	< 0.010
NI	< 0.020	< 0.020	< 0.020
K	3.300	2.600	2.600
SE	< 0.010	< 0.010	< 0.010
AG	< 0.010	< 0.010	< 0.010
NA	3.500	3.700	4.500
SR	0.030	0.040	0.030
TL	< 0.010	< 0.010	< 0.010
SN	< 0.050	< 0.050	< 0.050
TI	0.170	0.280	< 0.010
V	0.010	0.020	< 0.010
Y	< 0.010	< 0.010	< 0.010
ZN	0.070	0.070	0.020

NURP CITY	LITTLE ROCK
AGENCY CODE	22ARCITY
SAMPLE POINT DESCRIPTION	FOUCHE CR @ HWY 5
STORET STATION #	AR 1053
STORM EVENT NUMBER	1145
BEGIN DATE/TIME	1-22-82
END DATE/TIME	1-23-82
NAME OF COLLECTOR	JOEY CLARK
ADDRESS	UALR,33RD&UNIV.,LITTLE ROCK,AR
PHONE NUMBER	501-569-3152
DATA MANAGEMENT NAME	SAME AS ABOVE
DATE/TIME COLLECTION	1-23-82 0015
DATE/TIME SHIPPED	1-29-82 1200
ADD SAMPLE DESCRIP	LOW DIS METALS VOL.
PH OF RUNOFF	6.83
TYPE OF SAMPLE	D
COMPOSIT DATE/TIME BEGIN	
COMPOSITE DATE/TIME END	
PARAM TOTAL SAMPLE #	
PARAM TOTAL PRESERVE	Y
PARAM DISSOLVE SAMPLE #	
PARAM DISSOLVED PRESERVE	Y

CONCENTRATION IN MG/L

ELEMENT	TOTAL	TOTAL RECOVERABLE	DISSOLVED
AL	10.800	9.400	0.100
AS	< 0.010	< 0.010	< 0.010
BA	0.110	0.110	0.140
BE	< 0.002	< 0.002	< 0.002
B	< 0.010	< 0.010	0.060
CD	< 0.005	< 0.005	< 0.005
CA	10.800	11.100	10.900
CR	0.010	0.010	< 0.010
CO	< 0.010	< 0.010	< 0.010
CU	0.020	0.020	< 0.020
FE	9.310	9.350	0.160
PB	< 0.040	< 0.040	< 0.040
LI	0.010	< 0.010	< 0.010
MG	4.000	4.100	3.000
MN	0.420	0.430	0.030
HG	< 0.001		< 0.001
MO	< 0.010	< 0.010	< 0.010
NI	< 0.020	< 0.020	< 0.020
K	2.000	2.100	1.800
SE	< 0.010	< 0.010	< 0.010
AG	< 0.010	< 0.010	< 0.010
NA	2.700	2.700	3.500
SR	0.050	0.050	0.040
TL	< 0.010	< 0.010	< 0.010
SN	< 0.050	< 0.050	< 0.050
TI	0.190	0.190	0.010
V	0.030	0.020	< 0.010
Y	< 0.010	< 0.010	< 0.010
ZN	0.070	0.070	< 0.010

NURP CITY	LITTLE ROCK
AGENCY CODE	22ARCITY
SAMPLE POINT DESCRIPTION	FOUCHE CR @ UNIV.
STORET STATION #	AR 1063
STORM EVENT NUMBER	1146
BEGIN DATE/TIME	1-22-82
END DATE/TIME	1-23-82
NAME OF COLLECTOR	JOEY CLARK
ADDRESS	UALR,33RD&UNIV.,LITTLE ROCK.AR
PHONE NUMBER	501-569-3152
DATA MANAGEMENT NAME	SAME AS ABOVE
DATE/TIME COLLECTION	1-23-82 0030
DATE/TIME SHIPPED	1-29-82 1200
ADD SAMPLE DESCRIP	LOW DIS METALS VOL.
PH OF RUNOFF	6.55
TYPE OF SAMPLE	D
COMPOSIT DATE/TIME BEGIN	
COMPOSITE DATE/TIME END	
PARAM TOTAL SAMPLE #	
PARAM TOTAL PRESERVE	Y
PARAM DISSOLVE SAMPLE #	
PARAM DISSOLVED PRESERVE	Y

CONCENTRATION IN MG/L

ELEMENT	TOTAL	TOTAL RECOVERABLE	DISSOLVED
AL	11.500	10.100	0.100
AS	< 0.010	< 0.010	< 0.010
BA	0.100	0.100	0.120
BE	< 0.002	< 0.002	< 0.002
B	< 0.010	0.010	0.100
CD	< 0.005	< 0.005	< 0.005
CA	6.800	6.800	6.500
CR	0.010	0.010	< 0.010
CO	< 0.010	< 0.010	< 0.010
CU	0.020	0.020	< 0.020
FE	9.630	9.350	0.100
PB	< 0.040	< 0.040	< 0.040
LI	0.010	< 0.010	< 0.010
MG	2.500	2.500	1.700
MN	0.370	0.360	0.080
HG	< 0.001		< 0.001
MO	< 0.010	< 0.010	< 0.010
NI	0.020	< 0.020	< 0.020
K	3.600	2.800	2.800
SE	< 0.010	< 0.010	< 0.010
AG	< 0.010	< 0.010	< 0.010
NA	4.200	4.200	5.400
SR	0.050	0.050	0.040
TL	< 0.010	< 0.010	< 0.010
SN	< 0.050	< 0.050	< 0.050
TI	0.190	0.200	0.010
V	0.020	0.020	< 0.010
Y	< 0.010	< 0.010	< 0.010
ZN	0.060	0.060	0.100 D

NURP CITY	LITTLE ROCK
AGENCY CODE	22ARCITY
SAMPLE POINT DESCRIPTION	FOUCHE CR @ LINDSEY RD
STORET STATION #	AR 1073
STORM EVENT NUMBER	1147
BEGIN DATE/TIME	1-22-82
END DATE/TIME	1-23-82
NAME OF COLLECTOR	JOEY CLARK
ADDRESS	UALR,33RD&UNIV.,LITTLE ROCK.AR
PHONE NUMBER	501-569-3152
DATA MANAGEMENT NAME	SAME AS ABOVE
DATE/TIME COLLECTION	1-23-82 1517
DATE/TIME SHIPPED	1-29-82 1200
ADD SAMPLE DESCRIP	LOW DIS METALS VOL.
PH OF RUNOFF	6.44
TYPE OF SAMPLE	D
COMPOSIT DATE/TIME BEGIN	
COMPOSITE DATE/TIME END	
PARAM TOTAL SAMPLE #	
PARAM TOTAL PRESERVE	Y
PARAM DISSOLVE SAMPLE #	
PARAM DISSOLVED PRESERVE	Y

CONCENTRATION IN MG/L

ELEMENT	TOTAL	TOTAL RECOVERABLE	DISSOLVED
AL	8.200	7.750	0.050
AS	< 0.010	< 0.010	< 0.010
BA	0.090	0.090	0.160
BE	< 0.002	< 0.002	< 0.002
B	0.020	0.030	0.080
CD	< 0.005	< 0.005	< 0.005
CA	9.900	10.300	9.900
CR	0.010	0.010	< 0.010
CO	< 0.010	< 0.010	< 0.010
CU	0.020	0.020	< 0.020
FE	6.950	7.200	0.110
PB	< 0.040	< 0.040	< 0.040
LI	< 0.010	< 0.010	< 0.010
MG	3.600	3.700	2.600
MN	0.330	0.340	0.190
HG	< 0.001		< 0.001
MO	< 0.010	< 0.010	< 0.010
NI	< 0.020	< 0.020	< 0.020
K	4.700	4.000	3.400
SE	< 0.010	< 0.010	< 0.010
AG	< 0.010	< 0.010	< 0.010
NA	8.700	9.100	10.000
SR	0.080	0.080	0.070
TL	< 0.010	< 0.010	< 0.010
SN	< 0.050	< 0.050	< 0.050
TI	0.160	0.200	0.010
V	0.010	0.010	< 0.010
Y	< 0.010	< 0.010	< 0.010
ZN	0.110	0.130	0.040

Samples were taken 5/17/81 at the following stations:
(Refer to Map Exhibit at front of V. III for locations of stations.)

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Exhibit 5: Summary of Priority Pollutants Sampling

QUALITY CONTROL CODES
FOR WITHDRAWN DATA POINTS

Code	Explanation
WD-A	Labeling or transcription error
WD-B	Contamination evidenced in blank or other source
WD-C	Unacceptably low performance evaluation result
WD-D	Unacceptably high performance evaluation result
WD-E	Unacceptable spike recovery result
WD-F	Holding time violation
WD-G	Analytical methodology inappropriate
WD-H	Sample result withdrawn by NURP city

(ug/l)

	AR1040 Rocke 36 5/17/81	AR1020 Rock@Mrk 5/17/81	AR1053 Fo@Hwy 5 5/17/81	AR1003 Fo@Univ 5/17/81	AR1073 Fo@Lind 5/17/81
I. PESTICIDES					
1. Acrolein	WD-F	→	→	→	→
2. Aldrin	ND	→	→	→	→
3. α-Hexachlorocyclohexane	ND	→	→	→	→
4. β-Hexachlorocyclohexane	ND	→	→	→	→
5. γ-Hexachlorocyclohexane (Lindane)	ND	→	→	→	→
6. δ-Hexachlorocyclohexane	ND	→	→	→	→
7. Chlordane	ND	→	→	→	→
8. DDD	ND	→	→	→	→
9. DDE	WD-C	→	→	→	→
10. DDT	ND	→	→	→	→
11. Dieldrin	ND	→	→	→	→
12. α-Endosulfan	WD-C	→	→	→	→
13. β-Endosulfan	ND	→	→	→	→
14. Endosulfan sulfate	ND	→	→	→	→
15. Endrin	ND	→	→	→	→
16. Endrin aldehyde	ND	→	→	→	→
17. Heptachlor	ND	→	→	→	→
18. Heptachlor epoxide	ND	→	→	→	→
19. Isophorone	ND	→	→	→	→
20. TCDD	ND	→	→	→	→
21. Toxaphene	ND	→	→	→	→
II. METALS AND INORGANICS					
22. Antimony	4U	→	→	→	→
23. Arsenic	10	7	3U	3U	3U
24. Asbestos	Not in NURP Program				
25. Beryllium	4	1U	1U	1U	1U
26. Cadmium	14	9	4U	4U	5
27. Chromium	34	26	6U	7	12
28. Copper	57	37	17	20	35
29. Cyanides	NT	NT	NT	NT	100U
30. Lead	282	165	40	66	100
31. Mercury	1.2	0.8U	0.8U	0.8U	0.8U
32. Nickel	182	123	71	38	116
33. Selenium	4U	→	→	→	→
34. Silver	7U	→	→	→	→
35. Thallium	63U	→	→	→	→
36. Zinc	238	130	77	82	164
III. PCBs AND RELATED COMPOUNDS					
37. PCB-1016	ND	→	→	→	→
38. PCB-1221	ND	→	→	→	→
39. PCB-1232	ND	→	→	→	→
40. PCB-1242	ND	→	→	→	→
41. PCB-1248	ND	→	→	→	→
42. PCB-1254	ND	→	→	→	→
43. PCB-1260	ND	→	→	→	→
44. 2-Chloronaphthalene	ND	→	→	→	→

(continued)

(ug/l2)

	AR1040 Rock@36 5/17/81	AR1020 Rock@Mrk 5/17/81	AR1053 Fo@Hwy5 5/17/81	AR1063 Fo@Univ 5/17/81	AR1073 Fo@Lind 5/17/81
IV. HALOGENATED ALIPHATICS					
45. Methane, bromo-	ND				
46. Methane, chloro-	ND				
47. Methane, dichloro-	WD-B				
48. Methane, chlorodibromo-	ND				
49. Methane, dichlorobromo-	ND				
50. Methane, tribromo-	ND				
51. Methane, trichloro- (chloroform)	ND	1	ND	ND	ND
52. Methane, tetrachloro- (carbon tet.)	ND				
53. Methane, trichlorofluoro-	ND				
54. Methane, dichlorodifluoro-	ND				
55. Ethane, chloro-	WD-C				
56. Ethane, 1,1-dichloro-	ND				
57. Ethane, 1,2-dichloro-	ND				
58. Ethane, 1,1,1-trichloro-	WD-D				
59. Ethane, 1,1,2-trichloro-	ND				
60. Ethane, 1,1,2,2-tetrachloro-	ND				
61. Ethane, hexachloro-	ND				
62. Ethene, chloro-	ND				
63. Ethene, 1,1-dichloro-	ND				
64. Ethene, 1,2-trans-dichloro-	ND	1	ND	1	ND
65. Ethene, trichloro-	ND				
66. Ethene, tetrachloro-	ND				
67. Propane, 1,2-dichloro-	ND				
68. Propene, 1,3-dichloro-	ND				
69. Butadiene, hexachloro-	ND				
70. Cyclopentadiene, hexachloro-	WD-G				
V. ETHERS					
71. Ether, bis(choromethyl)	ND				
72. Ether, bis(2-chloroethyl)	ND				
73. Ether, bis(2-chloroisopropyl)	ND				
74. Ether, 2-chloroethyl vinyl	ND				
75. Ether, 4-bromophenyl phenyl	ND				
76. Ether, 4-chlorophenyl phenyl	ND				
77. Bis(2-chloroethoxy) methane	ND				
VI. MONOCYCLIC AROMATICS (EXCLUDING PHENOLS, CRESOLS, PHTHALATES)					
78. Benzene	WD-B				
79. Benzene, chloro-	ND	ND	ND	ND	1G
80. Benzene, 1,2-dichloro-	ND				
81. Benzene, 1,3-dichloro-	ND				
82. Benzene, 1,4-dichloro-	ND				
83. Benzene, 1,2,4-trichloro-	ND				
84. Benzene, hexachloro-	ND				
85. Benzene, ethyl-	ND	1	ND	ND	ND
86. Benzene, nitro-	ND				
87. Toluene	WD-B				
88. Toluene, 2,4-dinitro-	ND				
89. Toluene, 2,6-dinitro	ND				

(continued)

(ug/l)

		AR1040 Rock@36 5/17/81	AR1020 Rock@Mch 5/17/81	AR1053 Fo@Hwy5 5/17/81	AR1013 Fo@Univ 5/17/81	AR1013 Fo@Land 5/17/81
VII.	**PHENOLS AND CRESOLS**					
90.	Phenol	ND	→	→	→	→
91.	Phenol, 2-chloro-	ND	→	→	→	→
92.	Phenol, 2,4-dichloro-	ND	→	→	→	→
93.	Phenol, 2,4,6-trichloro-	ND	→	→	→	→
94.	Phenol, pentachloro-	ND	ND	ND	1T	3G
95.	Phenol, 2-nitro-	ND	→	→	→	→
96.	Phenol, 4-nitro-	ND	ND	1T	3	19G
97.	Phenol, 2,4-dinitro-	ND	→	→	→	→
98.	Phenol, 2,4-dimethyl-	ND	→	→	→	→
99.	m-Cresol, p-chloro-	ND	→	→	→	→
100.	o-Cresol, 4,6-dinitro-	ND	→	→	→	→
VIII.	**PHTHALATE ESTERS**					
101.	Phthalate, dimethyl	ND	→	→	→	→
102.	Phthalate, diethyl	ND	ND	WD-B	2	ND
103.	Phthalate, di-n-butyl	ND	ND	ND	WD-B	WD-B
104.	Phthalate, di-n-octyl	ND	ND	1	ND	ND
105.	Phthalate, bis(2-ethylhexyl)	ND	ND	WD-B	WD-B	WD-B
106.	Phthalate, butyl benzyl	ND	→	→	→	→
IX.	**POLYCYCLIC AROMATIC HYDROCARBONS**					
107.	Acenaphthene	ND	→	→	→	→
108.	Acenaphthylene	ND	→	→	→	→
109.	Anthracene	ND	ND	ND	1	ND
110.	Benzo(a)anthracene	ND	→	→	→	→
111.	Benzo(b)fluoranthene	ND	→	→	→	→
112.	Benzo(k)fluoranthene	ND	→	→	→	→
113.	Benzo(g,h,i)perylene	ND	→	→	→	→
114.	Benzo(a)pyrene	ND	→	→	→	→
115.	Chrysene	ND	→	→	→	→
116.	Dibenzo(a,h)anthracene	ND	→	→	→	→
117.	Fluoranthene	ND	→	→	→	→
118.	Fluorene	ND	→	→	→	→
119.	Indeno(1,2,3-c,d)pyrene	ND	→	→	→	→
120.	Naphthalene	ND	→	→	→	→
121.	Phenanthrene	ND	ND	ND	1	ND
122.	Pyrene	ND	→	→	→	→
X.	**NITROSAMINES AND OTHER NITROGEN-CONTAINING COMPOUNDS**					
123.	Nitrosamine, dimethyl	WD-G	→	→	→	→
124.	Nitrosamine, diphenyl	WD-G	→	→	→	→
125.	Nitrosamine, di-n-propyl	ND	→	→	→	→
126.	Benzidine	WD-G	→	→	→	→
127.	Benzidine, 3,3'-dichloro-	WD-C	→	→	→	→
128.	Hydrazine, 1,2-diphenyl-	WD-G	→	→	→	→
129.	Acrylonitrile	WD-F	→	→	→	→

SAMPLE NO. 1016 8

LABORATORY RESULTS

ELEMENTAL ANALYSIS AR 1040 grab 5/17/81

JUL 1981

Lab Name MONSANTO RES. CORP.

Industrial Category NURP

Date Analyzed

Standard

☐ TASK I (Elements to be identified and measured by Plasma Emission Spectrometer)

1. Calcium	7774	µg/l	11. Cadmium	17	µg/l
2. Magnesium	4250	µg/l	12. Molybdenum	76	µg/l
3. Sodium	5309	µg/l	13. Tin	73	µg/l
4. Aluminum	2.78×10^4	µg/l	14. Yttrium	24	µg/l
5. Manganese	1302	µg/l	15. Cobalt	155	µg/l
6. Lead	340	µg/l	16. Chromium	61	µg/l
7. Vanadium	341	µg/l	17. Copper	96	µg/l
8. Boron	243	µg/l	18. Iron	4.63×10^4	µg/l
9. Barium	192	µg/l	19. Nickel	270	µg/l
10. Beryllium	1	µg/l	20. Titanium	40	µg/l
			21. Zinc	243	µg/l

☐ TASK II (Elements to be identified and measured by Flame/Flameless Atomic Absorption Spectrometer)

Flameless Only (Elements 1 - 6)

___ 1. Selenium	<4	µg/l	___ 4. Arsenic	23	µg/l
___ 2. Thallium	<63	µg/l	___ 5. Antimony	<4	µg/l
___ 3. Silver	<7	µg/l	___ 6. Mercury	<0.8	µg/l

Flameless Only (Elements 7 - 12)

___ 7. Palladium	µg/l	___ 10. Bismuth	µg/l
___ 8. Platinum	µg/l	___ 11. Lithium	µg/l
___ 9. Gold	µg/l	___ 12. Tellurium	µg/l

Flame Atomic Absorption (Elements 1 - 20)

___ 1. Calcium	µg/l	___ 11. Cadmium	µg/l
___ 2. Magnesium	µg/l	___ 12. Molybdenum	µg/l
___ 3. Sodium	µg/l	___ 13. Tin	µg/l
___ 4. Aluminum	µg/l	___ 14. Cobalt	µg/l
___ 5. Manganese	µg/l	___ 15. Chromium	µg/l
___ 6. Lead	µg/l	___ 16. Copper	µg/l
___ 7. Vanadium	µg/l	___ 17. Iron	µg/l
___ 8. Boron	µg/l	___ 18. Nickel	µg/l
___ 9. Barium	µg/l	___ 19. Titanium	µg/l
___ 10. Beryllium	µg/l	___ 20. Zinc	µg/l

SAMPLE NO. 10169

LABORATORY RESULTS

ELEMENTAL ANALYSIS AR 1040 Composite 5/17/81

28 JUL 1981

Lab Name MONSANTO RES. CORP.

Industrial Category NURP

Date Analyzed

Standard

☐ TASK I (Elements to be identified and measured by Plasma Emission Spectrometer)

1.	Calcium	7561	11.	Cadmium	14
2.	Magnesium	3162	12.	Molybdenum	53
3.	Sodium	4916	13.	Tin	30
4.	Aluminum	1.42×10^4	14.	Yttrium	21
5.	Manganese	818	15.	Cobalt	83
6.	Lead	282	16.	Chromium	34
7.	Vanadium	182	17.	Copper	57
8.	Boron	165	18.	Iron	2.47×10^4
9.	Barium	117	19.	Nickel	182
10.	Beryllium	4	20.	Titanium	23
			21.	Zinc	238

☐ TASK II (Elements to be identified and measured by Flame/Flameless Atomic Absorption Spectrometer)

Flameless Only (Elements 1 - 6)

___	1. Selenium	<4	___	4. Arsenic	10
___	2. Thallium	<63	___	5. Antimony	<4
___	3. Silver	<7	___	6. Mercury	1.2

Flameless Only (Elements 7 - 12)

___	7. Palladium	___	10. Bismuth
___	8. Platinum	___	11. Lithium
___	9. Gold	___	12. Tellurium

Flame Atomic Absorption (Elements 1 - 20)

___	1. Calcium	___	11. Cadmium
___	2. Magnesium	___	12. Molybdenum
___	3. Sodium	___	13. Tin
___	4. Aluminum	___	14. Cobalt
___	5. Manganese	___	15. Chromium
___	6. Lead	___	16. Copper
___	7. Vanadium	___	17. Iron
___	8. Boron	___	18. Nickel
___	9. Barium	___	19. Titanium
___	10. Beryllium	___	20. Zinc

SAMPLE NO. 10170

LABORATORY RESULTS

ELEMENTAL ANALYSIS

AR 1020
grab
5/17/81

28 JUL 1981

Lab Name MONSANTO RES. CORP.

Industrial Category NURP

Date Analyzed _____

Standard _____

☐ TASK I (Elements to be identified and measured by Plasma Emission Spectrometer)

1.	Calcium	4095	11.	Cadmium	9
2.	Magnesium	1943	12.	Molybdenum	45
3.	Sodium	2385	13.	Tin	35
4.	Aluminum	1.26×10^4	14.	Yttrium	15
5.	Manganese	757	15.	Cobalt	69
6.	Lead	156	16.	Chromium	24
7.	Vanadium	160	17.	Copper	39
8.	Boron	138	18.	Iron	1.91×10^4
9.	Barium	120	19.	Nickel	141
10.	Beryllium	<1	20.	Titanium	38
			21.	Zinc	130

☐ TASK II (Elements to be identified and measured by Flame/Flameless Atomic Absorption Spectrometer)

Flameless Only (Elements 1 - 6)

___	1. Selenium	<4	___	4. Arsenic	6
___	2. Thallium	<63	___	5. Antimony	<4
___	3. Silver	<7	___	6. Mercury	<0.8

Flameless Only (Elements 7 - 12)

___	7. Palladium		___	10. Bismuth	
___	8. Platinum		___	11. Lithium	
___	9. Gold		___	12. Tellurium	

Flame Atomic Absorption (Elements 1 - 20)

___	1. Calcium		___	11. Cadmium	
___	2. Magnesium		___	12. Molybdenum	
___	3. Sodium		___	13. Tin	
___	4. Aluminum		___	14. Cobalt	
___	5. Manganese		___	15. Chromium	
___	6. Lead		___	16. Copper	
___	7. Vanadium		___	17. Iron	
___	8. Boron		___	18. Nickel	
___	9. Barium		___	19. Titanium	
___	10. Beryllium		___	20. Zinc	

SAMPLE NO. 10171

LABORATORY RESULTS

ELEMENTAL ANALYSIS

AR 1020 composite 5/17/81

28 JUL 1981

Lab Name MONSANTO RES. CORP.

Industrial Category NURP

Date Analyzed

Standard

☐ TASK I (Elements to be identified and measured by Plasma Emission Spectrometer)

1.	Calcium	3969	11.	Cadmium	9
2.	Magnesium	2062	12.	Molybdenum	41
3.	Sodium	3067	13.	Tin	24
4.	Aluminum	1.34×10^4	14.	Yttrium	13
5.	Manganese	730	15.	Cobalt	77
6.	Lead	165	16.	Chromium	26
7.	Vanadium	166	17.	Copper	37
8.	Boron	149	18.	Iron	2.11×10^4
9.	Barium	125	19.	Nickel	123
10.	Beryllium	<1	20.	Titanium	34
			21.	Zinc	130

☐ TASK II (Elements to be identified and measured by Flame/Flameless Atomic Absorption Spectrometer)

Flameless Only (Elements 1 - 6)

___	1. Selenium	<4	___	4. Arsenic	7
___	2. Thallium	<63	___	5. Antimony	<4
___	3. Silver	<7	___	6. Mercury	<0.8

Flameless Only (Elements 7 - 12)

___	7. Palladium		___	10. Bismuth	
___	8. Platinum		___	11. Lithium	
___	9. Gold		___	12. Tellurium	

Flame Atomic Absorption (Elements 1 - 20)

___	1. Calcium		___	11. Cadmium	
___	2. Magnesium		___	12. Molybdenum	
___	3. Sodium		___	13. Tin	
___	4. Aluminum		___	14. Cobalt	
___	5. Manganese		___	15. Chromium	
___	6. Lead		___	16. Copper	
___	7. Vanadium		___	17. Iron	
___	8. Boron		___	18. Nickel	
___	9. Barium		___	19. Titanium	
___	10. Beryllium		___	20. Zinc	

SAMPLE NO. 10172

LABORATORY RESULTS

ELEMENTAL ANALYSIS

AR 1053
grab
5/17/81

28 JUL 1981

Lab Name MONSANTO RES. CORP.

Industrial Category NURP

Date Analyzed

Standard

☐ TASK I (Elements to be identified and measured by Plasma Emission Spectrometer)

1.	Calcium	6706	µg/l		
2.	Magnesium	2020	µg/l		
3.	Sodium	4236	µg/l		
4.	Aluminum	7055	µg/l		
5.	Manganese	358	µg/l		
6.	Lead	131	µg/l		
7.	Vanadium	99	µg/l		
8.	Boron	137	µg/l		
9.	Barium	73	µg/l		
10.	Beryllium	<1	µg/l		
11.	Cadmium	6	µg/l		
12.	Molybdenum	29	µg/l		
13.	Tin	<18	µg/l		
14.	Yttrium	<10	µg/l		
15.	Cobalt	41	µg/l		
16.	Chromium	18	µg/l		
17.	Copper	30	µg/l		
18.	Iron	1.17×10^4	µg/l		
19.	Nickel	119	µg/l		
20.	Titanium	38	µg/l		
21.	Zinc	116	µg/l		

☐ TASK II (Elements to be identified and measured by Flame/Flameless Atomic Absorption Spectrometer)

Flameless Only (Elements 1 - 6)

___	1.	Selenium	<4	µg/l		
___	2.	Thallium	<63	µg/l		
___	3.	Silver	<7	µg/l		
___	4.	Arsenic	<3	µg/l		
___	5.	Antimony	<4	µg/l		
___	6.	Mercury	<0.8	µg/l		

Flameless Only (Elements 7 - 12)

___	7.	Palladium		µg/l		
___	8.	Platinum		µg/l		
___	9.	Gold		µg/l		
___	10.	Bismuth		µg/l		
___	11.	Lithium		µg/l		
___	12.	Tellurium		µg/l		

Flame Atomic Absorption (Elements 1 - 20)

___	1.	Calcium		µg/l		
___	2.	Magnesium		µg/l		
___	3.	Sodium		µg/l		
___	4.	Aluminum		µg/l		
___	5.	Manganese		µg/l		
___	6.	Lead		µg/l		
___	7.	Vanadium		µg/l		
___	8.	Boron		µg/l		
___	9.	Barium		µg/l		
___	10.	Beryllium		µg/l		
___	11.	Cadmium		µg/l		
___	12.	Molybdenum		µg/l		
___	13.	Tin		µg/l		
___	14.	Cobalt		µg/l		
___	15.	Chromium		µg/l		
___	16.	Copper		µg/l		
___	17.	Iron		µg/l		
___	18.	Nickel		µg/l		
___	19.	Titanium		µg/l		
___	20.	Zinc		µg/l		

SAMPLE NO. 10173

LABORATORY RESULTS

ELEMENTAL ANALYSIS

AR 1053
grab
5/17/81

28 JUL 1981

Lab Name MONSANTO RES. CORP.

Industrial Category NURP

Date Analyzed _____

Standard _____

☐ TASK I (Elements to be identified and measured by Plasma Emission Spectrometer)

1. Calcium	9927	µg/l	11. Cadmium	5	µg/l
2. Magnesium	2516	µg/l	12. Molybdenum	24	µg/l
3. Sodium	4142	µg/l	13. Tin	<18	µg/l
4. Aluminum	4381	µg/l	14. Yttrium	<10	µg/l
5. Manganese	230	µg/l	15. Cobalt	20	µg/l
6. Lead	84	µg/l	16. Chromium	10	µg/l
7. Vanadium	74	µg/l	17. Copper	30	µg/l
8. Boron	97	µg/l	18. Iron	4170	µg/l
9. Barium	81	µg/l	19. Nickel	114	µg/l
10. Beryllium	1	µg/l	20. Titanium	34	µg/l
			21. Zinc	74	µg/l

☐ TASK II (Elements to be identified and measured by Flame/Flameless Atomic Absorption Spectrometer)

Flameless Only (Elements 1 - 6)

___ 1. Selenium	<4	µg/l	___ 4. Arsenic	<3	µg/l
___ 2. Thallium	<63	µg/l	___ 5. Antimony	<4	µg/l
___ 3. Silver	<7	µg/l	___ 6. Mercury	<0.8	µg/l

Flameless Only (Elements 7 - 12)

___ 7. Palladium	µg/l	___ 10. Bismuth	µg/l
___ 8. Platinum	µg/l	___ 11. Lithium	µg/l
___ 9. Gold	µg/l	___ 12. Tellurium	µg/l

Flame Atomic Absorption (Elements 1 - 20)

___ 1. Calcium	µg/l	___ 11. Cadmium	µg/l
___ 2. Magnesium	µg/l	___ 12. Molybdenum	µg/l
___ 3. Sodium	µg/l	___ 13. Tin	µg/l
___ 4. Aluminum	µg/l	___ 14. Cobalt	µg/l
___ 5. Manganese	µg/l	___ 15. Chromium	µg/l
___ 6. Lead	µg/l	___ 16. Copper	µg/l
___ 7. Vanadium	µg/l	___ 17. Iron	µg/l
___ 8. Boron	µg/l	___ 18. Nickel	µg/l
___ 9. Barium	µg/l	___ 19. Titanium	µg/l
___ 10. Beryllium	µg/l	___ 20. Zinc	µg/l

SAMPLE NO.
10174

LABORATORY RESULTS

ELEMENTAL ANALYSIS

AR 1073
5/19/81
grab

28 JUL 1981

Lab Name MONSANTO RES. CORP.

Industrial Category NURP

Date Analyzed _____

Standard _____

☐ TASK I (Elements to be identified and measured by Plasma Emission Spectrometer)

1.	Calcium	7896	11.	Cadmium	4
2.	Magnesium	2235	12.	Molybdenum	19
3.	Sodium	5519	13.	Tin	<18
4.	Aluminum	3138	14.	Yttrium	<10
5.	Manganese	115	15.	Cobalt	15
6.	Lead	85	16.	Chromium	9
7.	Vanadium	48	17.	Copper	30
8.	Boron	160	18.	Iron	3753
9.	Barium	64	19.	Nickel	96
10.	Beryllium	1	20.	Titanium	27
			21.	Zinc	84

☐ TASK II (Elements to be identified and measured by Flame/Flameless Atomic Absorption Spectrometer)

Flameless Only (Elements 1 - 6)

___	1. Selenium	<4	___	4. Arsenic	<3
___	2. Thallium	<63	___	5. Antimony	<4
___	3. Silver	<7	___	6. Mercury	<0.8

Flameless Only (Elements 7 - 12)

___	7. Palladium		___	10. Bismuth	
___	8. Platinum		___	11. Lithium	
___	9. Gold		___	12. Tellurium	

Flame Atomic Absorption (Elements 1 - 20)

___	1. Calcium		___	11. Cadmium	
___	2. Magnesium		___	12. Molybdenum	
___	3. Sodium		___	13. Tin	
___	4. Aluminum		___	14. Cobalt	
___	5. Manganese		___	15. Chromium	
___	6. Lead		___	16. Copper	
___	7. Vanadium		___	17. Iron	
___	8. Boron		___	18. Nickel	
___	9. Barium		___	19. Titanium	
___	10. Beryllium		___	20. Zinc	

SAMPLE NO. 10175

LABORATORY RESULTS

ELEMENTAL ANALYSIS

AR 1663
5/17
composite

28 JUL 1981

Lab Name MONSANTO RES. CORP.

Industrial Category NURP

Date Analyzed

Standard

☐ TASK I (Elements to be identified and measured by Plasma Emission Spectrometer)

1.	Calcium	6515	µg/l		
2.	Magnesium	2042	µg/l		
3.	Sodium	5009	µg/l		
4.	Aluminum	4676	µg/l		
5.	Manganese	231	µg/l		
6.	Lead	66	µg/l		
7.	Vanadium	61	µg/l		
8.	Boron	171	µg/l		
9.	Barium	66	µg/l		
10.	Beryllium	<1	µg/l		
11.	Cadmium	<4	µg/l		
12.	Molybdenum	12	µg/l		
13.	Tin	<18	µg/l		
14.	Yttrium	<10	µg/l		
15.	Cobalt	13	µg/l		
16.	Chromium	7	µg/l		
17.	Copper	20	µg/l		
18.	Iron	5755	µg/l		
19.	Nickel	38	µg/l		
20.	Titanium	34	µg/l		
21.	Zinc	82	µg/l		

☐ TASK II (Elements to be identified and measured by Flame/Flameless Atomic Absorption Spectrometer)

Flameless Only (Elements 1 - 6)

___	1.	Selenium	<4	µg/l	4.	Arsenic	<3 µg/l
___	2.	Thallium	<63	µg/l	5.	Antimony	<4 µg/l
___	3.	Silver	<7	µg/l	6.	Mercury	<0.8 µg/l

Flameless Only (Elements 7 - 12)

___	7.	Palladium	µg/l	___	10. Bismuth µg/l
___	8.	Platinum	µg/l	___	11. Lithium µg/l
___	9.	Gold	µg/l	___	12. Tellurium µg/l

Flame Atomic Absorption (Elements 1 - 20)

___	1.	Calcium	µg/l	___	11.	Cadmium	µg/l
___	2.	Magnesium	µg/l	___	12.	Molybdenum	µg/l
___	3.	Sodium	µg/l	___	13.	Tin	µg/l
___	4.	Aluminum	µg/l	___	14.	Cobalt	µg/l
___	5.	Manganese	µg/l	___	15.	Chromium	µg/l
___	6.	Lead	µg/l	___	16.	Copper	µg/l
___	7.	Vanadium	µg/l	___	17.	Iron	µg/l
___	8.	Boron	µg/l	___	18.	Nickel	µg/l
___	9.	Barium	µg/l	___	19.	Titanium	µg/l
___	10.	Beryllium	µg/l	___	20.	Zinc	µg/l

SAMPLE NO.
10176

LABORATORY RESULTS

ELEMENTAL ANALYSIS

AR 1053
composite
5/17

28 JUL 1981

Lab Name MONSANTO RES. CORP.

Industrial Category NURP

Date Analyzed _____

Standard _____

☐ TASK I (Elements to be identified and measured by Plasma Emission Spectrometer)

1. Calcium	7063	µg/l	11. Cadmium	<4	µg/l
2. Magnesium	1708	µg/l	12. Molybdenum	<12	µg/l
3. Sodium	2931	µg/l	13. Tin	<18	µg/l
4. Aluminum	491	µg/l	14. Yttrium	<10	µg/l
5. Manganese	105	µg/l	15. Cobalt	<9	µg/l
6. Lead	40	µg/l	16. Chromium	<6	µg/l
7. Vanadium	19	µg/l	17. Copper	17	µg/l
8. Boron	91	µg/l	18. Iron	588	µg/l
9. Barium	46	µg/l	19. Nickel	71	µg/l
10. Beryllium	<1	µg/l	20. Titanium	2	µg/l
			21. Zinc	77	µg/l

☐ TASK II (Elements to be identified and measured by Flame/Flameless Atomic Absorption Spectrometer)

Flameless Only (Elements 1 - 6)

___ 1. Selenium	<4	µg/l	___ 4. Arsenic	<3	µg/l
___ 2. Thallium	<63	µg/l	___ 5. Antimony	<4	µg/l
___ 3. Silver	<7	µg/l	___ 6. Mercury	<0.8	µg/l

Flameless Only (Elements 7 - 12)

___ 7. Palladium	µg/l	___ 10. Bismuth	µg/l
___ 8. Platinum	µg/l	___ 11. Lithium	µg/l
___ 9. Gold	µg/l	___ 12. Tellurium	µg/l

Flame Atomic Absorption (Elements 1 - 20)

___ 1. Calcium	µg/l	___ 11. Cadmium	µg/l
___ 2. Magnesium	µg/l	___ 12. Molybdenum	µg/l
___ 3. Sodium	µg/l	___ 13. Tin	µg/l
___ 4. Aluminum	µg/l	___ 14. Cobalt	µg/l
___ 5. Manganese	µg/l	___ 15. Chromium	µg/l
___ 6. Lead	µg/l	___ 16. Copper	µg/l
___ 7. Vanadium	µg/l	___ 17. Iron	µg/l
___ 8. Boron	µg/l	___ 18. Nickel	µg/l
___ 9. Barium	µg/l	___ 19. Titanium	µg/l
___ 10. Beryllium	µg/l	___ 20. Zinc	µg/l

SAMPLE NO.
10177

LABORATORY RESULTS

ELEMENTAL ANALYSIS

AR 1073
5/17/81
Composite

28 JUL 1981

Lab Name MONSANTO RES. CORP.

Industrial Category NURP

Date Analyzed _____

Standard _____

☐ TASK I (Elements to be identified and measured by Plasma Emission Spectrometer)

1.	Calcium	8955	11.	Cadmium	5
2.	Magnesium	2700	12.	Molybdenum	13
3.	Sodium	6776	13.	Tin	<18
4.	Aluminum	6910	14.	Yttrium	10
5.	Manganese	306	15.	Cobalt	23
6.	Lead	100	16.	Chromium	12
7.	Vanadium	90	17.	Copper	35
8.	Boron	162	18.	Iron	7620
9.	Barium	102	19.	Nickel	116
10.	Beryllium	<1	20.	Titanium	74
			21.	Zinc	164

☐ TASK II (Elements to be identified and measured by Flame/Flameless Atomic Absorption Spectrometer)

Flameless Only (Elements 1 - 6)

___	1. Selenium	<4	___	4. Arsenic	<3
___	2. Thallium	<63	___	5. Antimony	<4
___	3. Silver	<7	___	6. Mercury	<0.8

Flameless Only (Elements 7 - 12)

___	7. Palladium		___	10. Bismuth	
___	8. Platinum		___	11. Lithium	
___	9. Gold		___	12. Tellurium	

Flame Atomic Absorption (Elements 1 - 20)

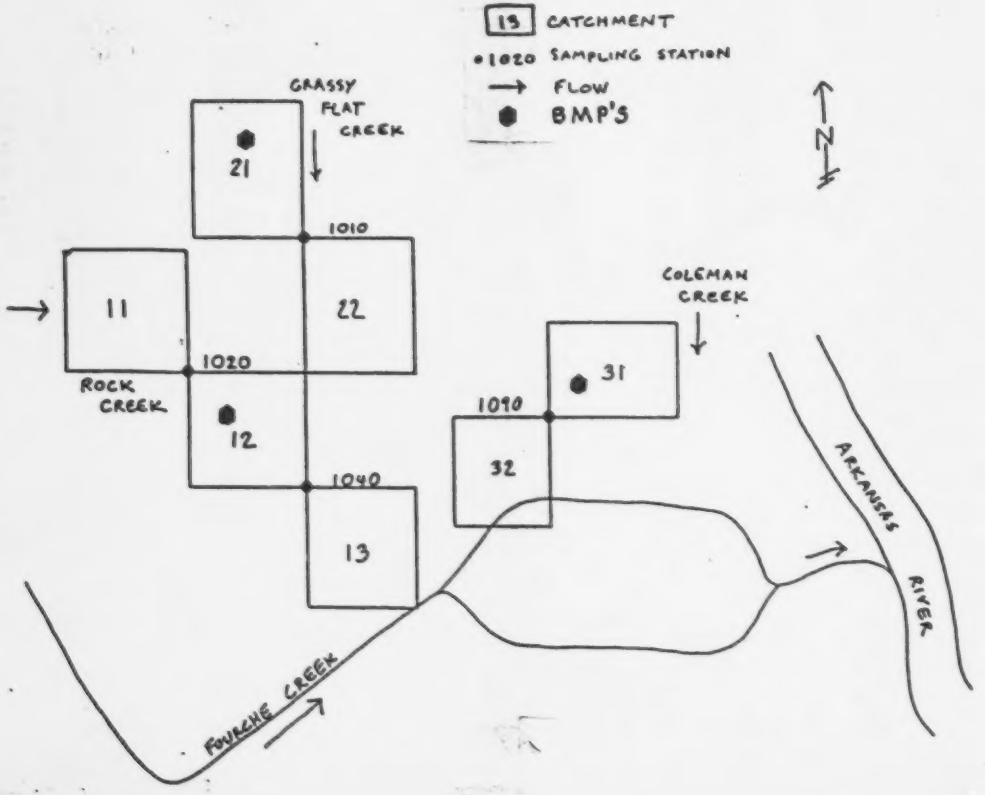
___	1. Calcium		___	11. Cadmium	
___	2. Magnesium		___	12. Molybdenum	
___	3. Sodium		___	13. Tin	
___	4. Aluminum		___	14. Cobalt	
___	5. Manganese		___	15. Chromium	
___	6. Lead		___	16. Copper	
___	7. Vanadium		___	17. Iron	
___	8. Boron		___	18. Nickel	
___	9. Barium		___	19. Titanium	
___	10. Beryllium		___	20. Zinc	

ICP REFERENCE STANDARDS

28 JUL 1981

VALYTE	OBS VALUE (ug/l)	TRUE VALUE (ug/l)	% ERROR
Al	384	330	16
B	361	360	< 1
B	154	150	3
Ba	408	460	11
Ba	22	20	10
Be	80	85	6
Cd	59	50	18
Cd	30	30	0
Co	230	235	2
Co	25	30	17
Cr	311	315	1
Cr	44	40	10
Cu	461	430	7
Cu	33	30	10
Fe	148	200	26
Mn	317	315	1
Mn	74	70	6
Mo	106	120	12
Mo	46	40	15
Ni	211	165	28
Ni	46	50	8
Pb	102	135	24
Pb	85	100	15
Ti	130	165	21
V	58	60	3
Zn	349	335	4

Exhibit 6



POPULATION ESTIMATES IN
NURP BASINS AND SUB-BASINS-1980

Rock Creek

Sub-basin	11	537
" "	12	22,875
" "	13	2,789
	Total	26,201

Grassy Flat

Sub-basin	21	12,840
" "	22	3,516
" "	Total	16,356

Coleman

Sub-basin	31	10,624
" "	32	89
	Total	10,713

GRAND TOTAL NURP BASINS--53,270

Sub-Basin	Station Code	Total Area (Acres)	Residential Land Use (Per Cent)	Commercial Land Use (Per Cent)	Industrial Land Use (Per Cent)	Open Land Use (Per Cent)	Other Land Use (Per Cent)	Population Density (/Acre)	Slope (Ft/Mile)	Impervious Area (Per Cent)
11	1020	5187.2	8.4	0.7	2.2	.06	88.7	.10	94.28	32.8
12	1040	4816.08	48.9	9.8	4.0	2.45	34.8	4.75	26.83	50.7
13	-	712.00	35.6	27.2	3.1	7.81	26.2	3.92	15.62	53.9
21	1010	2460.8	61.6	10.4	4.7	8.40	14.8	5.22	72.62	53.8
22	-	669.4	51.9	8.0	0	9.60	30.4	5.25	35.90	47.5
31	1090	2123.7	52.2	29.6	1.7	9.50	7.0	4.83	86.81	59.1
32	-	130.3	5.2	29.9	14.7	0	50.2	.68	17.78	66.0

Exhibit Seven

FOURCHE CREEK BASIN SOIL TYPES

Code	Soil Type
1	Ao - Amy silt loam, frequently flooded
2	Au - Amy - Urban land complex
3	CaC - Carnasaw Gravelly silt loam, 3 to 8 per cent slopes
4	CaD - Carnasaw gravelly silt loam 8 to 12 per cent slopes
5	CbC - Carnasaw - Urban land complex, 3 to 8 per cent slopes
6	CbD - Carnasaw - Urban land complex, 8 to 12 per cent slopes
7	CMC - Carnasaw - Mountainburg association, undulating
8	CMF - Carnasaw - Mountainburg association, steep
9	LdB - Leadvale - Urban land complex, 1 to 3 per cent slopes
10	LeB - Leadvale silt loam, 1 to 3 per cent slopes
11	Re - Rexor silt loam, frequently flooded
12	Rf - Rexor - Urban land complex, frequently flooded
13	SgB - Sallisaw gravelly silt loam, 1 to 3 per cent slopes
14	SgC - Sallisaw gravelly silt loam, 3 to 8 per cent slopes
15	ShC - Sallisaw - Urban land complex, 3 to 8 per cent slopes
16	SKC - Sallisaw - Leadvale association - undulating
17	UT - Urban Land

DETAILED LAND USE CLASSIFICATION SYSTEM

LEVEL II

11	Residential
12	Commercial and Services
13	Industrial
14	Transportation, Communications & Utilities
16	Mixed Urban or Built-up Land
17	Other Urban or Built-Up Land
21	Cropland and Pasture
22	Orchards, Groves, Vineyards, Nurseries, & Ornamental Horticultural Areas
23	Confined Feeding Operations
24	Other Agricultural Lands
41	Deciduous Forest Land
42	Evergreen Forest Land
43	Mixed Forest Land
51	Streams and Canals
52	Lakes
53	Reservoirs
61	Forested Wetland
75	Strip Mines, Quarries, and Gravel Pits
76	Transitional Areas
77	Mixed Barren Lands

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

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METROPLAN KURP STUDY
N-WAY TABULATIONS OF
LAND USE BY SOILS BY
BY CENSUS UNITS BY
SUB-BASINS OF
FOURCHE CREEK BASIN.

****

0 0

Land Uses, Slopes and Soils
(Level II)

Fourche Creek Watershed

(April 29, 1981)

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 0 . SUBBASIN # 0 .

LU-1980	SOILS 0	
0	98285.875	98285.875
11	0.	0.
12	0.	0.
13	0.	0.
14	0.	0.
16	0.	0.
17	0.	0.
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	0.	0.
43	0.	0.
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	98285.875	98285.875

CENSUS # 0 . SUBBASIN # 0 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
PAGE 1

MAJOR VALUES ARE:

CENSUS # 0 . SUBBASIN # 11 .

	SOILS	
LU-1980	0	
0	113.660	113.660
11	0.	0.
12	0.	0.
13	0.	0.
14	0.	0.
16	0.	0.
17	0.	0.
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	0.	0.
43	0.	0.
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	113.660	113.660

CENSUS # 0 . SUBBASIN # 11 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK PAGE 2

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440002202 . SUBBASIN # 11 .

	SOILS			
LU-1980	13333	23333	32132	
0	0.	0.	0.	0.
11	2.471	27.179	9.883	39.534
12	7.413	0.	0.	7.413
13	0.	0.	0.	0.
14	2.471	0.	0.	2.471
16	0.	0.	0.	0.
17	0.	0.	0.	0.
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	0.	0.	0.	0.
42	0.	0.	0.	0.
43	2.471	7.413	2.471	12.356
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	0.	0.	0.
61	0.	0.	0.	0.
75	0.	0.	0.	0.
76	0.	0.	14.825	14.825
77	0.	0.	0.	0.
TOTALS	14.825	34.592	27.179	76.597

CENSUS # 1440002202 . SUBBASIN # 11 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

CENSUS # 1440004200 . SUBBASIN # 11 .

	SOILS				
LU-1980	13333	23333	32132	313333	
0	0.	0.	0.	0.	0
11	160.606	200.140	14.825	29.650	405.221
12	2.471	2.471	7.413	0.	12.354
13	9.883	2.471	0.	0.	12.354
14	19.767	4.942	34.592	0.	59.301
16	0.	0.	0.	0.	0
17	0.	0.	0.	0.	0
21	44.475	0.	88.951	12.354	145.781
22	0.	0.	0.	0.	0
23	190.256	2.471	49.417	0.	242.144
24	0.	0.	17.296	0.	17.296
41	0.	0.	0.	0.	0
42	39.534	7.413	14.825	14.825	76.597
43	1900.091	1144.008	716.549	232.261	3992.909
51	0.	0.	0.	0.	0
52	0.	0.	0.	0.	0
53	0.	2.471	12.354	0.	14.825
61	0.	0.	0.	0.	0
75	0.	0.	0.	0.	0
76	24.709	61.771	9.883	0.	96.364
77	0.	0.	0.	0.	0
TOTALS	2391.792	1428.157	966.106	289.091	5075.145

CENSUS # 1440004200 . SUBBASIN # 11 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES AREA

CENSUS = 1440002101 . SUBBASIN = 12 .

	SOILS			
LU=1980	13333	23333	32132	
0	0.	0.	0.	0.
11	331.095	190.256	281.678	803.029
12	51.888	56.830	39.534	148.252
13	0.	0.	0.	0.
14	0.	0.	14.825	14.825
16	0.	0.	0.	0.
17	0.	7.413	37.063	44.475
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	0.	0.	0.	0.
42	9.883	22.238	2.471	34.592
43	0.	0.	0.	0.
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	0.	0.	0.
61	0.	0.	0.	0.
75	0.	0.	0.	0.
76	0.	0.	0.	0.
77	0.	0.	0.	0.
TOTALS	392.867	276.736	375.571	1045.174

CENSUS = 1440002101 . SUBBASIN = 12 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS = 1440002102 . SUBBASIN # 12 .

	SOILS		
LU=1980	13333	32132	
0	0.	0.	0.
11	22.238	27.179	49.417
12	4.942	7.413	12.354
13	0.	0.	0.
14	0.	0.	0.
16	0.	0.	0.
17	0.	2.471	2.471
21	0.	0.	0.
22	0.	0.	0.
23	0.	0.	0.
24	0.	0.	0.
41	2.471	17.296	19.767
42	0.	0.	0.
43	0.	4.942	4.942
51	0.	0.	0.
52	0.	0.	0.
53	0.	0.	0.
61	0.	0.	0.
75	0.	0.	0.
76	0.	0.	0.
77	0.	0.	0.
TOTALS	29.650	59.301	88.951

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS = 1440002702 . SUBBASIN = 12 .

	SOILS			
LU-1980	13333	23333	32132	
0	0.	0.	0.	0.
11	153.193	163.077	101.305	417.575
12	64.242	22.238	34.592	121.072
13	0.	0.	0.	0.
14	0.	7.413	4.942	12.354
16	0.	0.	0.	0.
17	9.883	0.	0.	9.883
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	0.	0.	0.	0.
42	0.	0.	0.	0.
43	32.121	44.475	14.825	91.422
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	0.	0.	0.
61	0.	0.	0.	0.
75	0.	0.	0.	0.
76	0.	2.471	32.121	34.592
77	0.	0.	0.	0.
TOTALS	259.440	239.673	187.785	686.899

CENSUS = 1440002202 . SUBBASIN = 12 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
PAGE 7

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440002401 . SUBBASIN # 12 .

	SOILS			
LU-1980	13333	23333	32132	
0	0.	0.	0.	0.
11	798.088	252.028	74.126	1124.241
12	123.543	168.018	24.709	316.270
13	0.	0.	0.	0.
14	42.005	84.009	19.767	145.781
16	0.	0.	0.	0.
17	14.825	22.238	24.709	61.771
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	0.	4.942	9.883	14.825
42	44.475	0.	0.	44.475
43	454.638	358.275	88.951	901.864
51	0.	0.	0.	0.
52	7.413	0.	0.	7.413
53	7.413	0.	0.	7.413
61	0.	0.	0.	0.
75	0.	0.	0.	0.
76	22.238	0.	0.	22.238
77	0.	0.	0.	0.
TOTALS	1514.637	889.510	242.144	2648.291

CENSUS # 1440002401 . SUBBASIN # 12 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

MAJOR VALUES ARE:

CENSUS # 1440002402 . SUBBASIN # 12 .

		SOILS
LU-1980	13333	
0	0.	0.
11	195.198	195.198
12	7.413	7.413
13	0.	0.
14	0.	0.
16	0.	0.
17	0.	0.
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	24.709	24.709
43	12.354	12.354
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	239.673	239.673

CENSUS # 1440002402 . SUBBASIN # 12 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE!

CENSUS # 1440004200 . SUBBASIN # 12 .

	SOILS			
LU-1980	13333	23333	32132	
0	0.	0.	0.	0.
11	14.825	24.709	0.	39.534
12	0.	0.	0.	0.
13	0.	0.	0.	0.
14	0.	0.	0.	0.
16	0.	0.	0.	0.
17	0.	0.	0.	0.
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	0.	0.	0.	0.
42	0.	0.	0.	0.
43	37.063	19.767	4.942	61.771
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	0.	0.	0.
61	0.	0.	0.	0.
75	0.	0.	0.	0.
76	0.	0.	0.	0.
77	0.	0.	0.	0.
TOTALS	51.888	44.475	4.942	101.305

CENSUS # 1440004200 . SUBBASIN # 12 .

LU/LC BY SOILS AT CENSUS AT SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE

CENSUS # 1440002102 . SUBBASIN # 13 .

	SOILS				
LU-1980	13333	32132	43333	83333	
0	0.	0.	0.	0.	0.
11	22.238	56.830	17.296	3.	98.364
12	2.471	49.417	29.650	19.767	101.305
13	0.	0.	0.	0.	0.
14	0.	0.	2.471	0.	2.471
16	0.	0.	0.	0.	0.
17	0.	0.	0.	0.	0.
21	0.	0.	0.	0.	0.
22	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.
24	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
42	0.	0.	0.	0.	0.
43	0.	17.296	0.	0.	17.296
51	0.	0.	0.	0.	0.
52	0.	0.	0.	0.	0.
53	0.	0.	0.	0.	0.
61	0.	0.	0.	0.	0.
75	0.	0.	0.	0.	0.
76	0.	0.	0.	0.	0.
77	0.	0.	0.	0.	0.
TOTALS	24.709	123.543	49.417	19.767	217.436

CENSUS # 1440002102 . SUBBASIN # 13 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS = 1440002401 . SUBBASIN = 13 .

			SOILS
LU-1980	13333	32132	
0	0.	0.	0.
11	2.471	2.471	4.942
12	0.	0.	0.
13	0.	0.	0.
14	0.	0.	0.
16	0.	0.	0.
17	0.	0.	0.
21	0.	0.	0.
22	0.	0.	0.
23	0.	0.	0.
24	0.	0.	0.
41	0.	0.	0.
42	0.	0.	0.
43	9.883	12.354	22.238
51	0.	0.	0.
52	0.	0.	0.
53	0.	0.	0.
61	0.	0.	0.
75	0.	0.	0.
76	0.	0.	0.
77	0.	0.	0.
TOTALS	12.354	14.825	27.179

CENSUS = 1440002401 . SUBBASIN = 13 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440002402 . SUBBASIN # 13 .

			SOILS	
LU-1980	13333	32132	63333	0.
0	0.	0.	0.	143.077
11	158.135	4.942	0.	158.135
12	96.364	29.650	32.121	0.
13	0.	0.	0.	9.883
14	4.942	0.	4.942	0.
16	0.	0.	0.	37.063
17	37.063	0.	0.	0.
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	14.825
41	14.825	0.	0.	0.
42	0.	0.	0.	56.830
43	51.888	4.942	0.	0.
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	0.	0.	22.238
61	0.	0.	22.238	0.
75	0.	0.	0.	0.
76	0.	0.	0.	0.
77	0.	0.	0.	
TOTALS	363.216	39.534	59.301	462.051

CENSUS # 1440002402 . SUBBASIN # 13 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
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LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE

CENSUS = 0 . SUBBASIN = 21 .

LU-1980	SOILS 0	
0	19.767	19.767
11	0.	0.
12	0.	0.
13	0.	0.
14	0.	0.
16	0.	0.
17	0.	0.
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	0.	0.
43	0.	0.
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	19.767	19.767

CENSUS = 0 . SUBBASIN = 21 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440002202 . SUBBASIN # 21 .

	SOILS			
LU-1980	13333	23333	32132	0.
0	0.	0.	0.	1163.775
11	647.365	321.683	192.727	229.790
12	59.301	59.301	111.189	0.
13	0.	0.	0.	183.310
14	88.951	4.942	49.617	0.
16	0.	0.	0.	14.825
17	12.354	0.	2.471	0.
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	0.	0.	0.	0.
42	0.	0.	0.	140.839
43	44.475	50.830	39.534	0.
51	0.	0.	0.	0.
52	0.	0.	0.	4.942
53	0.	4.942	0.	0.
61	0.	0.	0.	0.
75	0.	0.	19.767	50.830
76	37.063	0.	0.	0.
77	0.	0.		
TOTALS	889.510	449.696	415.104	1754.310

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS = 1440004200 . SUBBASIN = 21 .

	SOILS			
LU-1980	13333	23333	32132	
0	0.	0.	0.	0.
11	170.489	166.018	69.184	407.692
12	9.883	19.767	17.296	46.946
13	0.	0.	0.	0.
14	0.	0.	0.	0.
16	0.	34.592	0.	34.592
17	66.713	9.883	17.296	93.893
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	0.	0.	0.	0.
42	0.	0.	0.	0.
43	19.767	24.709	0.	44.475
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	12.354	0.	0.	12.354
61	0.	0.	0.	0.
75	0.	0.	0.	0.
76	0.	19.767	0.	19.767
77	0.	0.	0.	0.
TOTALS	279.207	276.736	103.776	659.719

CENSUS = 1440004200 . SUBBASIN = 21 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

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LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 0 . SUBBASIN # 22 .

	SOILS	
LU-1980	0	
0	4.942	4.942
11	0.	0.
12	0.	0.
13	0.	0.
14	0.	0.
16	0.	0.
17	0.	0.
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	0.	0.
43	0.	0.
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	4.942	4.942

CENSUS # 0 . SUBBASIN # 22 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440002101 . SUBBASIN # 22 .

		SOILS
LU-1980	32132	
0	0.	0.
11	29.650	29.650
12	0.	0.
13	0.	0.
14	0.	0.
16	0.	0.
17	0.	0.
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	0.	0.
43	0.	0.
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	29.650	29.650

CENSUS # 1440002101 . SUBBASIN # 22 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440002202 . SUBBASIN # 22 .

	SOILS			
LU-1980	13333	23333	32132	
0	0.	0.	0.	0.
11	81.538	182.844	116.130	380.512
12	9.883	39.534	4.942	54.359
13	0.	0.	0.	0.
14	0.	0.	0.	0.
16	0.	0.	0.	0.
17	17.296	44.475	0.	61.771
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	19.767	7.413	32.121	59.301
42	0.	0.	0.	0.
43	14.825	49.417	0.	64.242
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	19.767	2.471	22.238
61	0.	0.	0.	0.
75	0.	0.	0.	0.
76	0.	0.	0.	0.
77	0.	0.	0.	0.
TOTALS	143.310	343.449	155.664	642.423

CENSUS # 1440002202 . SUBBASIN # 22 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

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LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 0 . SUBBASIN # 31 .

	SOILS	
LU-1980	0	
0	34.592	34.592
11	0.	0.
12	0.	0.
13	0.	0.
14	0.	0.
16	0.	0.
17	0.	0.
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	0.	0.
43	0.	0.
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	34.592	34.592

CENSUS # 0 . SUBBASIN # 31 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440001500 . SUBBASIN # 31 .

	SOILS			
LU-1980	13333	23333	32132	
0	0.	0.	0.	0.
11	101.305	108.718	56.830	266.853
12	7.413	0.	2.471	9.883
13	0.	0.	0.	0.
14	0.	0.	0.	0.
16	0.	0.	0.	0.
17	0.	0.	0.	0.
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	0.	0.	0.	0.
42	0.	0.	0.	0.
43	0.	0.	0.	0.
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	0.	0.	0.
61	0.	0.	0.	0.
75	0.	0.	0.	0.
76	0.	0.	0.	0.
77	0.	0.	0.	0.
TOTALS	108.718	108.718	59.301	276.736

CENSUS # 1440001500 . SUBBASIN # 31 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

CENSUS = 1440001600 . SUBBASIN = 31 .

LU-1980	13333	23333	SOILS
0	0.	0.	0.
11	27.179	17.296	44.475
12	2.471	4.942	7.413
13	0.	0.	0.
14	0.	0.	0.
16	0.	0.	0.
17	0.	0.	0.
21	0.	0.	0.
22	0.	0.	0.
23	0.	0.	0.
24	0.	0.	0.
41	0.	0.	0.
42	0.	0.	0.
43	2.471	0.	2.471
51	0.	0.	0.
52	0.	0.	0.
53	0.	0.	0.
61	0.	0.	0.
75	0.	0.	0.
76	0.	0.	0.
77	0.	0.	0.
TOTALS	32.121	22.238	54.359

CENSUS = 1440001600 . SUBBASIN = 31 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440001700 . SUBBASIN # 31 .

	SOILS			
LU-1980	13333	23333	32132	
0	0.	0.	0.	0.
11	7.413	9.883	9.883	27.179
12	42.009	0.	7.413	49.417
13	0.	0.	0.	0.
14	0.	0.	2.471	2.471
16	0.	0.	0.	0.
17	12.354	19.767	64.242	96.364
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	0.	0.	0.	0.
42	0.	0.	0.	0.
43	0.	0.	0.	0.
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	0.	0.	0.
61	0.	0.	0.	0.
75	0.	0.	0.	0.
76	0.	0.	0.	0.
77	0.	0.	0.	0.
TOTALS	61.771	29.650	84.009	175.431

CENSUS # 1440001700 . SUBBASIN # 31 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE!

CENSUS # 1440001800 . SUBBASIN # 31 .

		SOILS
LU-1980	32132	
0	0.	0.
11	12.354	12.354
12	19.767	19.767
13	0.	0.
14	4.942	4.942
16	0.	0.
17	0.	0.
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	0.	0.
43	0.	0.
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	37.063	37.063

CENSUS # 1440001800 . SUBBASIN # 31 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE

CENSUS = 1440001900 . SUBBASIN = 31 .

		SOILS	
LU-1980		32132	
	0	0.	0.
	11	22.238	22.238
	12	0.	0.
	13	0.	0.
	14	0.	0.
	16	0.	0.
	17	0.	0.
	21	0.	0.
	22	0.	0.
	23	0.	0.
	24	0.	0.
	41	0.	0.
	42	0.	0.
	43	0.	0.
	51	0.	0.
	52	0.	0.
	53	0.	0.
	61	0.	0.
	75	0.	0.
	76	0.	0.
	77	0.	0.
TOTALS		22.238	22.238

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK — PAGE 2a
MAJOR VALUES ARE:

CENSUS # 1440002101 . SUBBASIN # 31 .

LU-1980	13331	23333	SOILS
0	0.	0.	0.
11	39.534	165.548	205.081
12	111.189	187.785	298.974
13	0.	0.	0.
14	29.650	0.	29.650
16	0.	0.	0.
17	54.359	2.471	56.830
21	0.	0.	0.
22	0.	0.	0.
23	0.	0.	0.
24	0.	0.	0.
41	0.	0.	0.
42	4.942	0.	4.942
43	0.	0.	0.
51	0.	0.	0.
52	0.	0.	0.
53	0.	0.	0.
61	0.	0.	0.
75	0.	0.	0.
76	0.	0.	0.
77	0.	0.	0.
TOTALS	239.673	355.804	595.477

CENSUS # 1440002101 . SUBBASIN # 31 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK — PAGE 2a

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS = 1440002102 . SUBBASIN = 31 .

LU-1980	13333	32132	43333	SOILS 0.
0	0.	0.	0.	
11	286.620	88.951	2.471	378.042
12	145.781	2.471	19.767	168.018
13	0.	0.	0.	0.
14	0.	0.	0.	0.
16	0.	0.	0.	0.
17	2.471	0.	0.	2.471
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	12.354	2.471	0.	14.825
42	0.	0.	0.	0.
43	81.534	4.942	0.	86.480
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	12.354	0.	0.	12.354
61	0.	0.	0.	0.
75	0.	0.	0.	0.
76	0.	0.	0.	0.
77	7.413	0.	0.	7.413
TOTALS	548.531	98.834	22.234	669.603

CENSUS = 1440002102 . SUBBASIN = 31 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

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LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE

CENSUS = 14480002201 . SUBBASIN = 31 .

LU-1980	13333	SOILS
0	0.	0.
11	78.597	78.597
12	19.767	19.767
13	0.	0.
14	0.	0.
16	0.	0.
17	0.	0.
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	0.	0.
43	0.	0.
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	98.364	98.364

CENSUS = 14480002201 . SUBBASIN = 31 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440002202 . SUBBASIN # 31 .

		SOILS
LU-1980	23333	
0	0.	0.
11	133.426	133.426
12	19.767	19.767
13	0.	0.
14	0.	0.
16	0.	0.
17	0.	0.
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	0.	0.
43	9.883	9.883
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	163.077	163.077

CENSUS # 1440002202 . SUBBASIN # 31 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS = 1480002102 . SUBBASIN = 32 .

LU-1980	43333	63333	SOILS
0	0.	0.	0.
11	0.	0.	0.
12	56.830	0.	56.830
13	0.	0.	0.
14	0.	0.	0.
16	0.	0.	0.
17	0.	0.	0.
21	0.	0.	0.
22	0.	0.	0.
23	0.	0.	0.
24	0.	0.	0.
41	0.	0.	0.
42	0.	0.	0.
43	0.	0.	0.
51	0.	0.	0.
52	0.	0.	0.
53	0.	0.	0.
61	59.301	9.883	69.184
75	0.	0.	0.
76	0.	0.	0.
77	0.	0.	0.
TOTALS	116.130	9.883	126.014

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440002402 . SUBBASIN # 32 .

		SOILS
LU-1960	83333	
0	0.	0.
11	0.	0.
12	0.	0.
13	0.	0.
14	0.	0.
16	0.	0.
17	0.	0.
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	0.	0.
43	0.	0.
51	0.	0.
52	0.	0.
53	0.	0.
61	2.471	2.471
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	2.471	2.471

CENSUS # 1440002402 . SUBBASIN # 32 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 99999 . SUBBASIN # 99 .

LU-1960	43333	83333	SOILS 91122	
0	0.	0.	0.	0.
11	61.771	22.238	506.526	590.535
12	148.252	0.	86.480	234.732
13	0.	4.942	17.296	22.238
14	56.830	180.373	46.946	284.149
16	0.	0.	0.	0.
17	39.534	0.	74.126	113.660
21	0.	0.	2.471	2.471
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	0.	7.413	101.305	108.718
42	0.	0.	0.	0.
43	0.	7.413	4.942	12.356
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	32.121	2.471	34.592
61	0.	387.925	37.063	424.988
75	0.	0.	0.	0.
76	0.	0.	0.	0.
77	0.	0.	0.	0.
TOTALS	306.386	642.424	879.626	1828.436

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CENSUS # 99999 . SUBBASIN # 99 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 4063015 . SUBBASIN # 99 .

	SOILS				
LU-1980	23333	43333	313333	422332	
0	0.	0.	0.	0.	0.
11	0.	24.709	61.771	0.	86.480
12	0.	0.	0.	0.	0.
13	0.	0.	0.	0.	0.
14	0.	9.883	79.068	0.	88.951
16	0.	0.	0.	0.	0.
17	0.	0.	0.	0.	0.
21	106.247	214.965	108.718	0.	429.929
22	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.
24	0.	4.942	0.	0.	4.942
41	0.	0.	0.	0.	0.
42	42.005	12.354	86.480	69.184	210.023
43	506.526	570.769	1349.089	51.888	2478.272
51	0.	0.	0.	0.	0.
52	0.	0.	0.	0.	0.
53	37.063	0.	4.942	0.	42.005
61	0.	0.	0.	0.	0.
75	0.	0.	0.	0.	0.
76	0.	37.063	4.942	0.	42.005
77	0.	0.	0.	0.	0.
TOTALS	691.841	874.684	1695.010	121.072	3382.606

CENSUS # 4063015 . SUBBASIN # 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS = 4063020 . SUBBASIN # 99 .

	SOILS						
LU-1980	83333	322322	362323	381122	391133	403333	
0	0.	0.	0.	0.	0.	0.	0.
11	29.650	9.883	521.351	2.471	113.660	0.	677.015
12	0.	4.942	29.650	0.	0.	0.	34.592
13	0.	0.	0.	0.	0.	0.	0.
14	7.413	12.354	42.005	0.	0.	0.	61.771
16	0.	0.	0.	0.	0.	0.	0.
17	0.	0.	34.592	0.	29.650	0.	64.242
21	116.130	19.767	219.906	103.077	29.650	0.	548.531
22	0.	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.	0.
24	0.	0.	2.471	0.	0.	0.	2.471
41	0.	0.	0.	0.	0.	0.	0.
42	44.475	29.650	140.839	19.767	71.055	12.354	318.741
43	439.813	27.179	1215.663	219.906	674.545	88.951	2666.057
51	0.	0.	0.	0.	0.	0.	0.
52	0.	0.	0.	0.	0.	0.	0.
53	0.	0.	7.413	0.	7.413	0.	14.825
61	0.	0.	0.	0.	0.	0.	0.
75	0.	0.	98.834	0.	153.193	0.	252.028
76	14.825	0.	46.946	0.	22.238	0.	84.009
77	0.	0.	0.	0.	0.	0.	0.
TOTALS	652.307	103.776	2359.671	405.221	1102.003	101.305	4724.281

CENSUS = 4063020 . SUBBASIN # 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

CENSUS # 4063075 . SUBBASIN # 99 .

	SOILS						
LU-1980	13333	43333	83333	91122	362323	391133	
0	0.	0.	0.	0.	0.	0.	0.
11	0.	51.888	19.767	533.706	56.830	170.489	832.680
12	0.	0.	0.	19.767	0.	24.709	44.475
13	0.	0.	0.	0.	0.	4.942	4.942
14	0.	7.413	0.	135.897	7.413	49.417	200.140
16	0.	0.	0.	0.	0.	0.	0.
17	0.	0.	0.	0.	0.	0.	0.
21	0.	61.771	2.471	138.368	0.	353.333	555.944
22	0.	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.	0.
24	0.	0.	0.	0.	0.	19.767	19.767
41	0.	0.	0.	0.	0.	0.	0.
42	4.942	0.	0.	84.089	90.364	172.946	358.275
43	192.727	338.508	202.610	1129.183	462.051	1173.658	3498.737
51	0.	0.	0.	0.	0.	0.	0.
52	0.	0.	0.	0.	0.	0.	0.
53	0.	0.	0.	0.	0.	0.	0.
61	0.	0.	0.	0.	0.	0.	0.
75	0.	0.	0.	17.296	0.	0.	17.296
76	0.	0.	91.422	185.314	9.683	0.	286.620
77	0.	0.	0.	0.	0.	0.	0.
TOTALS	197.669	459.580	314.270	2243.540	632.540	1969.275	5816.875

CENSUS # 4063075 . SUBBASIN # 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 4003080 . SUBBASIN # 99 .

LU-1980 \ SOILS	13333	23333	83333	313333	322322	302323	381122	
0	0.	0.	0.	0.	0.	0.	0.	0.
11	71.655	0.	165.548	197.669	44.475	79.068	135.897	698.312
12	0.	0.	12.354	0.	49.217	0.	76.597	138.368
13	0.	0.	0.	0.	0.	0.	0.	0.
14	0.	44.475	51.888	0.	0.	17.296	93.893	207.552
16	0.	0.	0.	0.	0.	0.	0.	0.
17	0.	0.	0.	0.	2.471	59.301	39.534	101.305
21	27.179	59.301	214.965	452.167	281.078	93.893	348.391	1477.574
22	0.	0.	4.942	0.	0.	0.	0.	4.942
23	0.	0.	0.	0.	0.	0.	2.471	2.471
24	0.	0.	0.	0.	14.825	71.655	22.238	108.718
41	0.	0.	0.	0.	0.	0.	0.	0.
42	37.063	101.305	27.179	642.424	39.534	19.767	14.825	882.097
43	229.760	689.370	1050.115	1759.252	504.055	420.046	479.347	5131.977
51	0.	0.	0.	0.	0.	0.	0.	0.
52	0.	0.	0.	0.	0.	0.	0.	0.
53	0.	7.413	0.	12.354	0.	0.	4.942	24.709
61	0.	0.	0.	0.	0.	0.	0.	0.
75	0.	0.	0.	0.	0.	0.	0.	0.
76	0.	100.247	24.709	150.722	51.888	0.	7.413	340.979
77	0.	0.	0.	0.	0.	0.	0.	0.
TOTALS	365.687	1008.111	1551.699	3214.588	988.344	761.025	1225.546	9115.000

CENSUS # 4003080 . SUBBASIN # 99 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

CENSUS # 1440000100 . SUBBASIN # 99 .

		SOILS
LU-1960	91122	
0	0.	0.
11	7.413	7.413
12	2.471	2.471
13	0.	0.
14	7.413	7.413
16	0.	0.
17	14.825	14.825
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	0.	0.
43	0.	0.
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	32.121	32.121

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440000200 . SUBBASIN # 99 .

	SOILS			
LU-1980	122211	142211	203332	
0	0.	0.	0.	0.
11	44.475	76.597	0.	121.072
12	0.	12.354	0.	12.354
13	0.	128.485	19.767	148.252
14	2.471	931.514	44.475	978.461
16	0.	0.	0.	0.
17	0.	0.	0.	0.
21	9.883	289.091	86.480	385.454
22	4.942	71.655	0.	76.597
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	0.	0.	19.767	19.767
42	0.	0.	0.	0.
43	0.	0.	0.	0.
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	0.	0.	0.
61	4.942	24.709	185.314	214.965
75	0.	0.	0.	0.
76	0.	0.	0.	0.
77	0.	0.	0.	0.
TOTALS	66.713	1534.404	355.804	1956.921

CENSUS # 1440000200 . SUBBASIN # 99 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE

CENSUS = 1440000300 . SUBBASIN = 99 .

			SOILS
LU-1980	91122	142211	
0	0.	0.	0.
11	32.121	4.942	37.063
12	7.413	0.	7.413
13	42.005	34.592	76.597
14	29.650	0.	29.650
16	0.	0.	0.
17	9.883	0.	9.883
21	0.	0.	0.
22	0.	0.	0.
23	0.	0.	0.
24	0.	0.	0.
41	0.	0.	0.
42	0.	0.	0.
43	0.	0.	0.
51	0.	0.	0.
52	0.	0.	0.
53	0.	0.	0.
61	0.	0.	0.
75	0.	0.	0.
76	0.	0.	0.
77	0.	0.	0.
TOTALS	121.072	39.534	160.606

CENSUS = 1440000300 . SUBBASIN = 99 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440000400 . SUBBASIN # 99 .

	SOILS			
LU-1980	91122	142211	203332	
0	0.	0.	0.	0.
11	54.359	9.883	12.354	76.597
12	27.179	0.	7.413	34.592
13	9.883	14.825	274.265	298.974
14	22.238	0.	0.	22.238
16	0.	0.	0.	0.
17	24.709	7.413	59.301	91.422
21	0.	0.	4.942	4.942
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	0.	0.	0.	0.
42	0.	0.	0.	0.
43	0.	0.	0.	0.
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	0.	0.	0.
61	0.	0.	17.296	17.296
75	0.	0.	0.	0.
76	0.	0.	0.	0.
77	0.	0.	0.	0.
TOTALS	138.368	32.121	375.571	546.060

CENSUS # 1440000400 . SUBBASIN # 99 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

CENSUS # 1440300500 . SUBBASIN # 99 .

			SOILS	
LU-1980	13333	91122	203332	
0	0.	0.	0.	0.
11	187.785	34.592	32.121	254.499
12	46.946	19.767	39.534	106.247
13	0.	0.	22.238	22.238
14	7.413	14.825	261.911	284.149
16	0.	0.	0.	0.
17	0.	0.	17.296	17.296
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	4.942	0.	86.480	91.422
42	0.	0.	0.	0.
43	0.	0.	49.417	49.417
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	0.	0.	0.
61	0.	0.	316.270	316.270
75	0.	0.	0.	0.
76	0.	0.	14.825	14.825
77	0.	0.	0.	0.
TOTALS	247.086	69.184	840.092	1156.362

CENSUS # 1440300500 . SUBBASIN # 99 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

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LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440000600 . SUBBASIN # 99 .

			SOILS
LU-1980	13333	91122	
0	0.	0.	0.
11	46.946	185.314	232.261
12	2.471	29.650	32.121
13	0.	0.	0.
14	0.	12.354	12.354
16	0.	0.	0.
17	0.	0.	0.
21	0.	0.	0.
22	0.	0.	0.
23	0.	0.	0.
24	0.	0.	0.
41	0.	0.	0.
42	0.	0.	0.
43	0.	0.	0.
51	0.	0.	0.
52	0.	0.	0.
53	0.	0.	0.
61	0.	0.	0.
75	0.	0.	0.
76	0.	0.	0.
77	0.	0.	0.
TOTALS	49,417	227,319	276,736

CENSUS # 1440000600 . SUBBASIN # 99 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

CENSUS # 1440000700 . SUBBASIN # 99 .

LU-1980	13331	91122	SOILS
0	0.	0.	0.
11	49.417	163.077	212.494
12	0.	22.238	22.238
13	0.	0.	0.
14	0.	9.883	9.883
16	0.	0.	0.
17	0.	17.296	17.296
21	0.	0.	0.
22	0.	0.	0.
23	0.	0.	0.
24	0.	0.	0.
41	0.	0.	0.
42	0.	0.	0.
43	0.	0.	0.
51	0.	0.	0.
52	0.	0.	0.
53	0.	0.	0.
61	0.	0.	0.
75	0.	0.	0.
76	0.	0.	0.
77	0.	0.	0.
TOTALS	49.417	212.494	261.911

CENSUS # 1440000700 . SUBBASIN # 99 .

CENSUS = 1440000800 . SUBBASIN = 99 .

			SOILS
LU-1980	13333	91122	
0	0.	0.	0.
11	0.	0.	0.
12	12.354	17.296	29.650
13	0.	0.	0.
14	0.	27.179	27.179
16	0.	0.	0.
17	0.	9.883	9.883
21	0.	0.	0.
22	0.	0.	0.
23	0.	0.	0.
24	0.	0.	0.
41	0.	0.	0.
42	0.	0.	0.
43	0.	0.	0.
51	0.	0.	0.
52	0.	0.	0.
53	0.	0.	0.
61	0.	0.	0.
75	0.	0.	0.
76	0.	0.	0.
77	0.	0.	0.
TOTALS	12.354	54.359	66.713

CENSUS = 1440000800 . SUBBASIN = 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS = 1440000900 . SUBBASIN = 99 .

		SOILS
LU-1980	13333	
0	0.	0.
11	0.	0.
12	2.471	2.471
13	0.	0.
14	0.	0.
16	0.	0.
17	0.	0.
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	0.	0.
43	0.	0.
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	2.471	2.471

CENSUS = 1440000900 . SUBBASIN = 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS = 1440001000 . SUBBASIN = 99 .

			SOILS
LU-1980	13333	91122	
0	0.	0.	0.
11	249.557	27.179	276.736
12	140.839	12.354	153.193
13	0.	0.	0.
14	29.650	0.	29.650
16	0.	0.	0.
17	0.	0.	0.
21	0.	0.	0.
22	0.	0.	0.
23	0.	0.	0.
24	0.	0.	0.
41	0.	0.	0.
42	0.	0.	0.
43	0.	0.	0.
51	0.	0.	0.
52	0.	0.	0.
53	0.	0.	0.
61	0.	0.	0.
75	0.	0.	0.
76	0.	0.	0.
77	0.	0.	0.
TOTALS	420.046	39.534	459.580

CENSUS = 1440001000 . SUBBASIN = 99 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS = 1440001100 . SUBBASIN = 99 .

	SOILS			
LU-1980	13333	83333	203332	
0	0.	0.	0.	0.
11	617.715	7.413	27.179	652.307
12	19.767	0.	0.	19.767
13	0.	0.	0.	0.
14	2.471	0.	7.413	9.883
16	0.	0.	0.	0.
17	46.946	32.121	79.068	158.135
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	2.471	7.413	4.942	14.825
42	0.	0.	0.	0.
43	0.	0.	0.	0.
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	0.	0.	0.
61	0.	9.883	49.417	59.301
75	0.	0.	0.	0.
76	0.	0.	0.	0.
77	0.	0.	0.	0.
TOTALS	689.370	56.830	168.018	914.218

CENSUS = 1440001100 . SUBBASIN = 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS = 1440001200 . SUBBASIN = 99 .

	SOILS			
LU-1980	13333	43333	83333	
0	0.	0.	0.	0.
11	143.310	0.	0.	143.310
12	51.888	19.767	46.946	118.601
13	14.825	0.	96.364	111.189
14	14.825	0.	0.	14.825
16	0.	0.	0.	0.
17	101.305	0.	0.	101.305
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	2.471	0.	69.184	71.655
42	0.	0.	9.883	9.883
43	0.	0.	0.	0.
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	0.	0.	0.
61	0.	0.	17.296	17.296
75	0.	0.	0.	0.
76	0.	0.	0.	0.
77	0.	0.	0.	0.
TOTALS	328.625	19.767	239.673	588.065

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440001300 . SUBBASIN # 99 .

		SOILS
LU-1980	13333	
0	0.	0.
11	365.687	365.687
12	56.830	56.830
13	0.	0.
14	32.121	32.121
16	0.	0.
17	0.	0.
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	0.	0.
43	0.	0.
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	454.638	454.638

CENSUS # 1440001300 . SUBBASIN # 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

MAJOR VALUES ARE

CENSUS # 1440001400 . SUBBASIN # 99 .

			SOILS
LU-1980	13333	23333	
0	0.	0.	0.
11	249.557	27.179	276.736
12	59.301	0.	59.301
13	4.942	0.	4.942
14	34.592	2.471	37.063
16	0.	0.	0.
17	12.354	0.	12.354
21	0.	0.	0.
22	0.	0.	0.
23	0.	0.	0.
24	0.	0.	0.
41	0.	0.	0.
42	0.	0.	0.
43	0.	0.	0.
51	0.	0.	0.
52	0.	0.	0.
53	0.	0.	0.
61	0.	0.	0.
75	0.	0.	0.
76	0.	0.	0.
77	0.	0.	0.
TOTALS	360.745	29.650	390.396

CENSUS # 1440001400 . SUBBASIN # 99 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440001500 . SUBBASIN # 99 .

			SOILS
LU=1980	13333	23333	
0	0.	0.	0.
11	163.077	0.	163.077
12	34.592	4.942	39.534
13	0.	0.	0.
14	0.	0.	0.
16	0.	0.	0.
17	0.	0.	0.
21	0.	0.	0.
22	0.	0.	0.
23	0.	0.	0.
24	0.	0.	0.
41	0.	0.	0.
42	0.	0.	0.
43	0.	0.	0.
51	0.	0.	0.
52	0.	0.	0.
53	0.	0.	0.
61	0.	0.	0.
75	0.	0.	0.
76	0.	0.	0.
77	0.	0.	0.
TOTALS	197.669	4.942	202.610

CENSUS # 1440001500 . SUBBASIN # 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK PAGE 51

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440001000 . SUBBASIN # 99 .

LU-1980	13333	SOILS
0	0.	0.
11	2.471	2.471
12	0.	0.
13	0.	0.
14	0.	0.
16	0.	0.
17	0.	0.
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	0.	0.
43	0.	0.
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	2.471	2.471

CENSUS # 1440001000 . SUBBASIN # 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS # 1440001700 . SUBBASIN # 99 .

		SOILS	
LU-1980	13333	32132	
0	0.	0.	0.
11	86.480	0.	86.480
12	113.660	0.	113.660
13	0.	0.	0.
14	0.	0.	0.
16	0.	0.	0.
17	14.825	4.942	19.767
21	0.	0.	0.
22	0.	0.	0.
23	0.	0.	0.
24	0.	0.	0.
41	0.	0.	0.
42	0.	0.	0.
43	0.	0.	0.
51	0.	0.	0.
52	0.	0.	0.
53	0.	0.	0.
61	0.	0.	0.
75	0.	0.	0.
76	0.	0.	0.
77	0.	0.	0.
TOTALS	214.965	4.942	219.907

CENSUS # 1440001700 . SUBBASIN # 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

CENSUS = 1440001800 . SUBBASIN = 99 .

		SOILS	
LU-1980	13331	32132	
0	0.	0.	0.
11	432.400	46.946	479.347
12	37.063	0.	37.063
13	0.	0.	0.
14	29.650	4.942	34.592
16	0.	0.	0.
17	4.942	0.	4.942
21	0.	0.	0.
22	0.	0.	0.
23	0.	0.	0.
24	0.	0.	0.
41	0.	0.	0.
42	0.	0.	0.
43	0.	0.	0.
51	0.	0.	0.
52	0.	0.	0.
53	0.	0.	0.
61	0.	0.	0.
75	0.	0.	0.
76	0.	0.	0.
77	0.	0.	0.
TOTALS	504.055	51.888	555.943

CENSUS = 1440001800 . SUBBASIN = 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

CENSUS = 1440001900 . SUBBASIN = 99 .

	SOILS				
LU-1980	13333	32132	43333	83333	
0	0.	0.	0.	0.	0.
11	338.508	51.888	103.770	0.	494.172
12	0.	0.	197.669	7.413	205.081
13	0.	0.	24.709	42.005	66.713
14	0.	0.	0.	9.883	9.883
16	0.	0.	0.	0.	0.
17	17.296	4.942	0.	0.	22.238
21	0.	0.	0.	0.	0.
22	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.
24	0.	0.	0.	0.	0.
41	0.	0.	0.	0.	0.
42	0.	0.	0.	0.	0.
43	0.	0.	0.	0.	0.
51	0.	0.	0.	0.	0.
52	0.	0.	0.	0.	0.
53	0.	0.	0.	0.	0.
61	0.	0.	19.767	98.834	118.601
75	0.	0.	0.	0.	0.
76	0.	0.	0.	0.	0.
77	0.	0.	0.	0.	0.
TOTALS	355.804	56.830	345.920	158.135	916.689

CENSUS = 1440001900 . SUBBASIN = 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
PAGE 55

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS = 1440002002 . SUBBASIN = 99 .

	SOILS				
LU-1980	43333	83333	91122	203332	
0	0.	0.	0.	0.	0%
11	202.610	0.	301.445	0.	504.055
12	51.888	17.296	101.305	0.	170.489
13	259.440	103.776	281.078	49.480	691.841
14	59.301	12.354	37.063	24.709	133.426
16	0.	0.	0.	0.	0%
17	19.767	0.	17.296	7.413	44.475
21	4.942	0.	12.354	0.	17.296
22	0.	0.	0.	0.	0%
23	0.	0.	0.	0.	0%
24	14.825	0.	0.	0.	14.825
41	185.314	32.121	4.942	123.543	345.920
42	0.	0.	0.	0.	0%
43	37.063	2.471	113.660	0.	153.193
51	0.	0.	0.	0.	0%
52	0.	0.	0.	0.	0%
53	0.	0.	0.	88.951	88.951
61	66.713	286.620	7.413	182.844	543.589
75	0.	0.	0.	0.	0%
76	2.471	17.296	0.	0.	19.767
77	0.	0.	0.	0.	0%
TOTALS	904.334	471.934	877.155	476.485	2727.829

CENSUS = 1440002002 . SUBBASIN = 99 .

CENSUS # 1440002102 . SUBBASIN # 99 .

LU-1980	32132	43333	SOILS 83333	
0	0.	0.	0.	0.
11	14.825	4.942	0.	19.767
12	0.	39.534	4.942	44.475
13	0.	0.	0.	0.
14	0.	0.	22.238	22.238
16	0.	0.	0.	0.
17	0.	0.	0.	0.
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	0.	0.	0.	0.
42	0.	0.	0.	0.
43	0.	0.	0.	0.
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	0.	0.	0.
61	0.	4.942	51.888	56.830
75	0.	0.	0.	0.
76	0.	0.	0.	0.
77	0.	0.	0.	0.
TOTALS	14.825	49.417	79.068	143.310

CENSUS # 1440002102 . SUBBASIN # 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
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CENSUS # 1440002201 . SUBBASIN # 99 .

LU-1980	13333	SOILS
0	0.	0.
11	9.883	9.883
12	0.	0.
13	0.	0.
14	0.	0.
16	0.	0.
17	0.	0.
21	0.	0.
22	0.	0.
23	0.	0.
24	0.	0.
41	0.	0.
42	0.	0.
43	0.	0.
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	9.883	9.883

CENSUS # 1440002201 . SUBBASIN # 99 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS = 1440002202 . SUBBASIN = 99 .

LU-1980	13333	23333	SOILS
0	0.	0.	0.
11	4.942	0.	4.942
12	9.883	2.471	12.354
13	0.	0.	0.
14	0.	0.	0.
16	0.	0.	0.
17	0.	0.	0.
21	0.	0.	0.
22	0.	0.	0.
23	0.	0.	0.
24	0.	0.	0.
41	0.	0.	0.
42	0.	0.	0.
43	2.471	0.	2.471
51	0.	0.	0.
52	0.	0.	0.
53	0.	0.	0.
61	0.	0.	0.
75	0.	0.	0.
76	0.	0.	0.
77	0.	0.	0.
TOTALS	17.296	2.471	19.767

CENSUS = 1440002202 . SUBBASIN = 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE

CENSUS = 1440002401 . SUBBASIN = 99 .

LU-1980	13333	23333	SOILS 32132	
0	0.	0.	0.	0.
11	140.839	61.771	61.771	264.382
12	9.883	0.	4.942	14.825
13	0.	0.	0.	0.
14	0.	34.592	19.767	54.359
16	0.	0.	0.	0.
17	0.	0.	0.	0.
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	0.	14.825	9.883	24.709
42	0.	0.	0.	0.
43	130.956	207.552	197.669	536.177
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	12.354	12.354	0.	24.709
61	0.	0.	0.	0.
75	0.	0.	0.	0.
76	17.296	14.825	61.771	93.893
77	0.	0.	0.	0.
TOTALS	311.328	345.920	355.804	1013.052

CENSUS = 1440002401 . SUBBASIN = 99 .

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK

LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
MAJOR VALUES ARE:

CENSUS = 1440002402 . SUBBASIN = 99 .

	SOILS						
LU-1980	13333	23333	32132	83333	91122	122211	
0	0.	0.	0.	0.	0.	0.	0.
11	469.463	44.475	429.929	121.072	14.825	108.718	1188.483
12	103.776	0.	29.650	29.650	0.	0.	163.077
13	0.	0.	0.	0.	0.	0.	0.
14	29.650	17.296	39.534	9.883	0.	0.	96.364
16	0.	0.	0.	0.	0.	0.	0.
17	135.497	0.	51.888	202.610	4.942	22.238	417.575
21	14.825	0.	81.538	59.301	0.	14.825	170.489
22	0.	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.	0.
24	12.354	0.	42.005	0.	0.	9.883	64.242
41	106.247	32.121	101.305	4.942	0.	59.301	303.916
42	74.126	0.	207.552	0.	0.	0.	281.678
43	360.746	133.426	437.382	348.391	0.	256.969	1536.875
51	0.	0.	2.471	0.	0.	4.942	7.413
52	0.	0.	0.	0.	0.	0.	0.
53	17.296	0.	0.	4.942	0.	0.	22.238
61	0.	0.	0.	91.422	0.	0.	91.422
75	0.	0.	0.	0.	0.	0.	0.
76	9.883	9.883	19.767	34.592	0.	7.413	81.538
77	0.	0.	0.	0.	0.	0.	0.
TOTALS	1334.265	237.203	1442.982	906.805	19.767	484.289	4425.309

MAJOR VALUES ARE:

CENSUS = 1440004000 . SUBBASIN = 99 .

LU-1980	53333	83333	SOILS 91122	
0	0.	0.	0.	0.
11	0.	93.893	699.253	793.146
12	0.	0.	22.238	22.238
13	0.	0.	27.179	27.179
14	0.	0.	0.	0.
16	0.	0.	0.	0.
17	0.	2.471	7.413	9.883
21	0.	4.942	84.009	88.951
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	64.242	64.242
41	0.	0.	2.471	2.471
42	0.	9.883	108.718	118.601
43	9.883	269.324	2498.039	2777.246
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	0.	12.354	12.354
61	0.	0.	0.	0.
75	0.	4.942	373.100	378.042
76	0.	0.	175.431	175.431
77	0.	0.	0.	0.
TOTALS	9.883	385.454	4074.448	4469.785

CENSUS = 1440004000 . SUBBASIN = 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK PAGE 62

CENSUS # 1440004001 . SUBBASIN # 99 .

	SOILS						
LU-1980	53333	83333	91122	122211	142211	203332	
0	0.	0.	0.	0.	0.	0.	0.
11	365.687	2.471	61.771	0.	0.	12.358	442.284
12	12.358	0.	0.	0.	0.	4.942	17.296
13	37.063	0.	22.238	0.	0.	4.942	64.242
14	49.417	0.	0.	7.413	14.825	71.655	143.310
16	0.	2.471	69.184	0.	0.	0.	71.655
17	4.942	0.	0.	0.	0.	51.888	56.830
21	103.776	0.	0.	7.413	0.	0.	111.189
22	0.	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.	0.
24	4.942	0.	0.	0.	0.	0.	4.942
41	2174.356	4.942	400.279	0.	4.942	518.881	3103.400
42	0.	0.	0.	0.	0.	0.	0.
43	44.475	34.592	163.077	0.	0.	0.	242.144
51	0.	0.	0.	0.	0.	0.	0.
52	0.	0.	0.	0.	0.	0.	0.
53	0.	0.	0.	0.	0.	93.893	93.893
61	22.238	14.825	4.942	2.471	0.	281.678	326.153
75	330.037	29.650	209.324	0.	0.	27.179	642.190
76	0.	0.	7.413	0.	0.	0.	7.413
77	0.	0.	0.	0.	0.	0.	0.
TOTALS	3155.288	88.951	998.227	17.296	19.767	1067.411	5346.938

CENSUS # 1440004001 . SUBBASIN # 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
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MAJOR VALUES ARE:

CENSUS # 1440004101 . SUBBASIN # 99 .

	SOILS				
LU-1980	13333	43333	83333	91122	
0	0.	0.	0.	0.	0.
11	114.130	1858.086	165.548	610.302	2750.067
12	17.296	558.414	34.592	126.014	736.316
13	4.942	79.068	2.471	51.888	138.368
14	66.713	128.485	128.485	190.256	513.939
16	0.	0.	0.	0.	0.
17	2.471	66.713	61.771	98.834	229.790
21	51.888	158.135	217.436	686.899	1114.358
22	0.	0.	0.	0.	0.
23	0.	0.	7.413	0.	7.413
24	0.	0.	0.	61.771	61.771
41	0.	4.942	7.413	0.	12.354
42	4.942	90.364	12.354	155.664	269.324
43	644.894	978.460	1354.031	1536.875	4514.262
51	0.	0.	0.	0.	0.
52	0.	0.	0.	0.	0.
53	0.	0.	0.	4.942	4.942
61	0.	0.	0.	0.	0.
75	0.	0.	0.	0.	0.
76	0.	93.693	4.942	133.426	232.261
77	0.	0.	0.	0.	0.
TOTALS	909.276	4022.559	1996.458	3656.872	10585.166

CENSUS # 1440004101 . SUBBASIN # 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK PAGE 64

CENSUS # 1440004102 . SUBBASIN # 99 .

	SOILS			
LU-1980	43333	83333	91122	
0	0.	0.	0.	0.
11	734.316	121.072	59.301	916.689
12	59.301	86.460	66.713	212.494
13	2.471	12.354	4.942	19.767
14	17.296	2.471	19.767	39.534
16	0.	39.534	0.	39.534
17	4.942	0.	17.296	22.238
21	0.	0.	0.	0.
22	0.	0.	0.	0.
23	0.	0.	0.	0.
24	0.	0.	0.	0.
41	0.	7.413	0.	7.413
42	0.	9.883	0.	9.883
43	239.673	528.764	108.718	877.155
51	0.	0.	0.	0.
52	0.	0.	0.	0.
53	0.	0.	0.	0.
61	29.650	217.436	0.	247.086
75	0.	4.942	9.883	14.825
76	0.	14.825	0.	14.825
77	0.	0.	0.	0.
TOTALS	1089.649	1045.174	286.620	2421.442

CENSUS # 1440004102 . SUBBASIN # 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK PAGE 05

CENSUS = 1460004200 . SUBBASIN = 99 .

LU=1980	13333	23333	32132	43333	83333	91122	313333	
			SOILS					
0	0.	0.	0.	0.	0.	0.	0.	0.
11	1312.026	523.822	709.137	264.382	123.543	0.	29.650	2962.561
12	51.858	4.942	9.883	0.	19.767	0.	0.	86.480
13	0.	0.	0.	7.413	2.471	2.471	0.	12.356
14	39.534	118.601	2.471	74.120	224.648	0.	7.413	466.992
16	0.	4.942	0.	0.	0.	0.	0.	4.942
17	27.179	9.883	2.471	7.413	0.	0.	0.	46.946
21	840.092	820.325	385.454	484.289	353.333	4.942	42.005	2930.440
22	0.	0.	0.	0.	0.	0.	0.	0.
23	22.238	0.	2.471	0.	0.	0.	0.	24.709
24	14.825	40.946	19.767	7.413	4.942	0.	0.	93.893
41	0.	59.301	133.426	0.	0.	0.	0.	192.727
42	172.960	684.428	74.120	46.946	71.055	0.	22.238	1072.353
43	6681.203	5458.129	1418.273	1393.565	1390.036	2.471	1981.629	18331.309
51	0.	0.	0.	0.	0.	0.	0.	0.
52	0.	0.	0.	0.	0.	0.	0.	0.
53	37.063	153.193	0.	14.825	0.	0.	9.883	214.965
61	0.	0.	0.	0.	0.	0.	0.	0.
75	9.883	51.888	9.883	0.	0.	0.	0.	71.655
76	247.086	32.121	93.893	0.	37.063	0.	0.	410.163
77	0.	0.	0.	0.	0.	0.	0.	0.
TOTALS	9455.977	7968.520	2861.256	2300.370	2233.657	9.883	2092.818	26922.480

CENSUS = 1460004200 . SUBBASIN = 99 .

CENSUS # 1440004200 . SUBBASIN # 99 .

LU-1980	381122	SOILS
0	0.	0.
11	0.	0.
12	22.238	22.238
13	0.	0.
14	51.888	51.888
16	0.	0.
17	0.	0.
21	7.413	7.413
22	0.	0.
23	0.	0.
24	34.592	34.592
41	0.	0.
42	0.	0.
43	22.238	22.238
51	0.	0.
52	0.	0.
53	0.	0.
61	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
TOTALS	138.368	138.368

CENSUS # 1440004200 . SUBBASIN # 99 .
LU/LC BY SOILS BY CENSUS BY SUB-BASINS OF FOURCHE CREEK
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Land Uses, Slopes and Soils
(Level III)

NURP Sub-Basins

(April 29, 1981)

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

N-WAY TABULATIONS OF LAND USE
BY SOILS BY SLOPE ZONES FOR
SUB-BASINS OF FOURCHE CREEK.

LEVEL III

DETAILED LAND USE CLASSIFICATION SYSTEM

Residential - 11

111	Single Family
112	Multi Family
114	Mobile Homes
115	Mixed Residential

Commercial and Services - 12

121	Wholesale Trade
122	Retail Trade
123	Commercial Services
124	Governmental Public and Community Services and Public Safety
125	Medical Services
126	Educational and Religious
127	Cultural/Entertainment and Recreational

Industrial - 13

131	Processing
132	Manufacturing

Transportation, Communications, and Utilities - 14

141	Highways
142	Railways
145	Power Transmission
146	Pipeline
147	Utilities
148	Communications

Mixed Urban or Built-Up Land

162	Mixed Commercial, Services and Industrial

Other Urban or Built-Up Land - 17

171	Open Recreational Land
172	Cemeteries
179	Other

Agricultural Land - 20

211	Cropland
212	Pasture

Orchards, Groves, Vineyards, Nurseries and Ornamental Horticultural Areas - 22

221	Orchards, Groves and Vineyards

DETAILED LAND USE CLASSIFICATION SYSTEM (cont.)

Confined Feeding Operations - 23

231	Cattle
233	Poultry

Other Agricultural Lands - 24

241	Farmsteads

Rangeland - 30

320	Shrub and Brush Rangeland

Forest Land - 40

411	Crown Closure - 10-39%
412	Crown Closure - 40-69%
413	Greater Crown Closure - 70%
414	Clearcut

Evergreen Forest Land - 42

421	10-39% Crown Closure
422	40-69% Crown Closure
423	70% Greater Crown Closure
424	Clearcut

Mixed Forest Land - 43

431	10-39% Crown Closure
432	40-69% Crown Closure
433	70% Greater Crown Closure

Water - 50

510	Streams and Canals
530	Reservoirs

Wetlands - 60

610	Forested Wetland

Strip Mines, Quarries, and Gravel Pits

751	Strip Mines
752	Quarries
753	Sand and Gravel Pits
759	Other Mining Activities
760	Transitional Areas

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

SLOPES = 0 . SUBBASIN = 0 .

CODED-LU	0	SOILS
0	27250.7e2	27250.7e2
111	0.	0.
112	0.	0.
114	0.	0.
115	0.	0.
121	0.	0.
122	0.	0.
123	0.	0.
124	0.	0.
125	0.	0.
126	0.	0.
127	0.	0.
131	0.	0.
132	0.	0.
141	0.	0.
142	0.	0.
145	0.	0.
146	0.	0.
147	0.	0.
148	0.	0.
162	0.	0.
171	0.	0.
172	0.	0.
179	0.	0.
211	0.	0.
212	0.	0.
221	0.	0.
231	0.	0.
233	0.	0.
241	0.	0.
320	0.	0.
411	0.	0.
412	0.	0.
413	0.	0.
414	0.	0.
421	0.	0.
422	0.	0.
423	0.	0.
424	0.	0.
431	0.	0.
432	0.	0.
433	0.	0.
510	0.	0.
530	0.	0.
610	0.	0.
751	0.	0.
752	0.	0.
753	0.	0.
759	0.	0.
760	0.	0.
TOTALS	27250.7e2	27250.7e2

SLOPES = 0 . SUBBASIN = 0 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

SLOPES = 0 . SUBBASIN = 11 .

	SOILS					
CODED-LU	0	CB C	CB D	CMC	CMF	
0	16.673	0.	0.	0.	0.	16.673
111	0.618	2.470	2.470	0.618		6.175
112	0.	0.	0.	0.		0.
114	0.	0.	0.	0.		0.
115	0.	0.	0.	0.		0.
121	0.	0.	0.	0.		0.
122	0.	0.	0.	0.		0.
123	0.	0.	0.	0.		0.
124	0.	0.	0.	0.		0.
125	0.	0.	0.	0.		0.
126	0.	0.	0.	0.		0.
127	0.	0.	0.	0.		0.
131	0.	0.	0.	0.		0.
132	0.	0.	0.	0.		0.
141	0.	0.	0.	0.		0.
142	0.	0.	0.	0.		0.
145	0.	0.	0.	0.		0.
146	0.	0.	0.	0.		0.
147	0.	0.	0.	0.		0.
148	0.	0.	0.	0.		0.
162	0.	0.	0.	0.		0.
171	0.	0.	0.	0.		0.
172	0.	0.	0.	0.		0.
179	0.	0.	0.	0.		0.
211	0.	0.	0.	0.		0.
212	0.	0.	0.	0.		0.
221	0.	0.	0.	0.		0.
231	1.235	0.	0.	5.558	1.853	8.645
233	0.	0.	0.	0.		0.
241	0.	0.	0.	0.		0.
320	0.	0.	0.	0.		0.
411	0.	0.	0.	0.		0.
412	0.	0.	0.	0.		0.
413	0.	0.	0.	0.		0.
414	0.	0.	0.	0.		0.
421	0.	0.	0.	0.		0.
422	0.	0.	0.	0.		0.
423	0.	0.	0.	0.		0.
424	0.	0.	0.	0.		0.
431	0.	0.	0.	0.		0.
432	0.	0.	0.	0.		0.
433	12.351	1.853	7.410	13.586	50.037	85.836
510	0.	0.	0.	0.		0.
530	0.	0.	0.	0.		0.
610	0.	0.	0.	0.		0.
751	0.	0.	0.	0.		0.
752	0.	0.	0.	0.		0.
753	0.	0.	0.	0.		0.
759	0.	0.	0.	0.		0.
760	0.	0.	0.	0.		0.
TOTALS	30.876	4.323	9.880	19.761	52.490	117.330

SLOPES = 0 . SUBBASIN = 11 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

SLOPES = 1 . SUBBASIN = 11 .

CODED-LU	SOILS CA D	CB C	CB D	CHC	CHF	LE B	SG B	
0	0.	0.	0.	0.	0.	0.	0.	0.
111	1.235	3.705	0.618	0.	0.	0.	0.	5.558
112	0.	0.	0.	0.	0.	0.	0.	0.
114	0.	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	0.	0.
122	0.	0.	0.	0.	0.	0.	0.	0.
123	0.	0.	0.	0.	0.	0.	0.	0.
124	0.	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.	0.	0.	0.
127	0.	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.	0.	0.	0.
142	0.	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.618	0.	0.	0.	0.618
146	0.	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.	0.	0.	0.
172	0.	0.	0.	0.	0.	0.	0.	0.
179	0.	0.	0.	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.	0.	0.	0.
212	0.	0.618	0.	0.	0.	3.705	4.940	9.263
221	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.	0.618	0.618
320	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	1.235	0.	0.	0.	1.235
432	0.	0.	0.	0.	0.	0.	0.	0.
433	0.	11.733	7.410	48.167	0.618	2.470	3.705	74.103
510	0.	0.	0.	0.	0.	0.	0.	0.
530	0.	0.618	0.	0.	0.	0.	0.	0.618
610	0.	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	0.
760	0.	0.	0.	0.	0.	0.	0.	0.
TOTALS	1.235	16.673	8.028	50.020	0.618	6.175	9.263	92.011

SLOPES = 1 . SUBBASIN = 11 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

SLOPES = 1 . SUBBASIN = 11 .

CODED-LU	SOILS BG C	SOILS Sh C	SOILS SKC	
0	0.	0.	0.	0.
111	0.	12.351	0.618	12.968
112	0.	0.	0.	0.
114	0.	0.	0.	0.
115	0.	0.	0.	0.
121	0.	0.	0.	0.
122	0.	0.	0.	0.
123	0.	0.	0.	0.
124	0.	0.	0.	0.
125	0.	0.	0.	0.
126	0.	0.	0.	0.
127	0.	0.	0.	0.
131	0.	0.	0.	0.
132	0.	0.	0.	0.
141	0.	0.	1.235	1.235
142	0.	0.	0.	0.
145	3.705	0.	0.	3.705
146	0.	0.	0.	0.
147	0.	0.	0.	0.
148	0.	0.	0.	0.
162	0.	0.	0.	0.
171	0.	0.	0.	0.
172	0.	0.	0.	0.
179	0.	0.	0.	0.
211	0.	0.	0.	0.
212	2.470	10.498	0.618	13.586
221	0.	0.	0.	0.
231	0.	0.	0.	0.
233	0.	0.	0.	0.
241	0.	0.	0.	0.
320	0.	0.	0.	0.
411	0.	0.	0.	0.
412	0.	0.	0.	0.
413	0.	0.	0.	0.
414	0.	0.	0.	0.
421	0.	0.	0.	0.
422	0.	0.	0.	0.
423	0.	0.	0.	0.
424	0.	0.	0.	0.
431	0.	0.	1.235	1.235
432	0.	0.	0.	0.
433	69.163	9.263	61.753	140.178
510	0.	0.	0.	0.
530	0.	0.618	0.	0.618
610	0.	0.	0.	0.
751	0.	0.	0.	0.
752	0.	0.	0.	0.
753	0.	0.	0.	0.
759	0.	0.	0.	0.
760	3.705	0.	0.	3.705
TOTALS	79.043	32.729	65.458	177.230

SLOPES = 1 . SUBBASIN = 11 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

SLOPES = 2 . SUBBASIN # 11 .

CODED-LU	0	AD	SOILS CA D	CB C	CB D	CMC	CMF	
0	1.235	0.	0.	0.	0.	0.	0.	1.235
111	1.235	0.	6.793	27.171	22.848	10.498	4.323	72.868
112	0.	0.	0.	0.	0.	0.	0.	0.
114	0.	0.	0.	4.323	0.	0.	0.	4.323
115	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	0.	0.
122	0.	0.	0.	0.	0.	0.	0.	0.
123	0.	0.	0.	0.618	0.	0.	0.	0.618
124	0.	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.	0.	0.
126	0.618	0.	0.	0.	1.235	1.853	0.	3.705
127	0.	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.	0.
141	0.	0.618	0.	0.	0.	1.853	0.	2.470
142	0.	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	3.705	0.	3.705
146	0.	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	4.323	0.	0.	0.	4.323
148	0.	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.	0.	0.	0.
172	0.	0.	0.	0.	0.	0.	0.	0.
179	0.	0.	0.	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	6.793	0.	11.115	1.853	19.761
221	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	9.263	0.618	9.880
424	0.	0.	0.	0.	0.	0.	0.	0.
431	0.	1.853	0.	0.	0.	8.645	0.	10.498
432	0.	0.	0.	0.	0.	0.	0.	0.
433	2.470	0.	1.853	109.302	20.996	566.888	77.191	778.699
510	0.	0.	0.	0.	0.	0.	0.	0.
530	0.	0.	0.	0.	0.	1.853	0.	1.853
610	0.	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	0.
760	0.	0.	0.	1.235	0.	10.498	0.	11.733
TOTALS	5.558	2.470	8.645	153.764	45.079	626.170	83.983	925.670

SLOPES = 2 . SUBBASIN # 11 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

SLOPES = 2 . SUBBASIN = 11 .

CODED-LU	SOILS LD A	LE B	SG B	SG C	SH C	SKC	UT	
0	0.	0.	0.	0.	0.	0.	0.	0.
111	1.235	11.115	0.	0.	20.378	3.705	0.	36.434
112	0.	0.	0.	0.	0.618	0.	0.	0.618
114	0.	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	0.	0.
122	0.	0.	0.	0.	0.	0.	0.	0.
123	0.	0.	0.	0.	0.618	0.	0.	0.618
124	0.	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.	0.	0.
126	0.	0.	0.	1.853	0.618	0.	0.	2.470
127	0.	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.	17.908	0.	17.908
142	0.	0.	0.	0.	0.	0.	0.	0.
145	0.	3.705	3.088	16.056	0.	0.618	0.	23.466
146	0.	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.	0.
171	0.618	0.	0.	0.	0.	0.	0.	0.618
172	0.	0.	0.	0.	0.	0.	0.	0.
179	0.	0.	0.	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.	0.	0.	0.
212	0.	27.171	3.088	6.175	3.705	6.793	0.	44.932
221	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.618	0.	0.	0.	0.618
320	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	1.235	0.	12.351	0.	13.586
432	0.	0.	0.	0.	0.	0.	0.	0.
433	0.	59.900	9.263	174.760	27.171	142.031	2.470	415.594
510	0.	0.	0.	0.	0.	0.	0.	0.
530	0.	1.705	0.	0.	0.	1.853	0.	5.558
610	0.	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	0.
760	0.	0.	0.	8.645	0.	6.793	0.	15.438
TOTALS	1.853	105.597	15.438	209.341	53.107	192.050	2.470	579.856

SLOPES = 2 . SUBBASIN = 11 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

SLOPES = 3 . SUBBASIN = 11 .

	SOILS							
CODED-LU	0	AU	CA C	CA D	CB C	CB D	CMC	
0	4.323	0.	0.	0.	0.	0.	0.	4.323
111	0.618	0.	2.470	1.235	23.466	28.406	33.346	89.541
112	0.	0.	0.	0.	1.853	4.323	0.	6.175
114	0.	0.	0.	0.	0.618	0.	0.	0.618
115	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	0.	0.
122	0.	0.	0.	0.	1.235	1.235	0.	2.470
123	0.	0.	0.	0.	0.	0.	0.618	0.618
124	0.	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.	0.	0.
126	0.618	0.	0.	0.	7.410	6.793	1.853	16.673
127	0.	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.	0.
141	0.	0.618	0.	0.	3.088	1.235	3.088	5.558
142	0.	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	8.028	0.	8.028	8.028
146	0.	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	4.940	0.	0.	4.940
148	0.	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.	0.	2.470	2.470
172	0.	0.	0.	0.	0.	0.	0.	0.
179	0.	0.	0.	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	12.853	0.	14.821	16.673
221	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	45.079	45.079
233	0.	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.	1.853	1.853
320	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	1.235	1.235
423	0.	0.	0.	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	1.235	0.618	23.466	25.319
431	0.	0.	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	90.159	90.159	518.104	748.413
433	9.880	0.	13.586	18.526	0.	0.	0.	0.
510	0.	0.	0.	0.	0.	0.	2.470	3.705
530	0.	0.	1.235	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	0.
760	0.	0.	1.235	0.	5.558	6.175	4.323	17.291
TOTALS	15.438	0.618	18.526	19.761	138.943	138.943	660.752	992.980

SLOPES = 3 . SUBBASIN = 11 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE!

SLOPES = 3 . SUBBASIN # 11 .

CODED-LU	SOILS CHF	LE B	SG B	SG C	Sn C	SKC	UT	
0	2.470	0.	0.	0.	0.	0.	0.	2.470
111	59.282	2.470	0.	1.853	12.351	6.175	0.	82.131
112	0.	0.	0.	0.	0.618	0.	0.	0.618
114	0.	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	0.	0.
122	0.	0.	0.	0.	0.618	0.	0.	0.618
123	0.	0.	0.	0.	1.853	0.	0.	1.853
124	0.	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.	0.	0.
126	1.235	0.	0.	0.618	1.853	0.	0.	3.705
127	0.	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.	0.
141	0.618	0.	0.	0.	0.	16.673	0.	17.291
142	0.	0.	0.	0.	0.	0.	0.	0.
145	3.088	3.088	0.	4.323	0.	0.618	0.	11.115
146	0.	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.	0.	0.	0.
172	0.	0.	0.	0.	0.	0.	0.	0.
179	0.	0.	0.	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.	0.	0.	0.
212	1.853	3.705	2.470	2.470	0.558	1.235	0.	17.291
221	0.	0.	0.	0.	0.	0.	0.	0.
231	79.661	0.	0.	0.	0.705	0.	0.	81.366
233	0.	0.	0.	0.	0.	0.	0.	0.
241	1.235	0.	0.	0.	0.	0.	0.	1.235
320	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.	0.
423	13.586	0.	0.	0.	0.	6.175	0.	19.761
424	0.	0.	0.	0.	0.	0.	0.	0.
431	6.175	0.	0.	0.	4.470	11.115	0.	19.761
432	0.	0.	0.	0.	0.	0.	0.	0.
433	532.307	7.410	14.203	28.406	22.848	64.223	7.410	676.808
510	0.	0.	0.	0.	0.	0.	0.	0.
530	0.	2.470	0.	0.	0.	5.556	0.	8.026
610	0.	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	0.
760	4.323	0.	0.	2.470	0.	3.088	0.	9.880
TOTALS	705.831	19.143	16.673	40.139	51.872	114.860	7.410	955.929

SLOPES = 3 . SUBBASIN # 11 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

SLOPES = 4 . SUBBASIN = 11 .

CODED-LU	SOILS A	CA C	CA D	CB C	CB D	CMC	CMF	
0	3.088	0.	0.	0.	0.	0.	2.470	5.558
111	0.	3.705	0.	0.	11.115	13.586	55.577	83.983
112	0.	0.	0.	1.853	1.853	0.	0.	3.705
114	0.	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	0.	0.
122	0.	0.	0.	0.	0.	0.	0.	0.
123	0.	0.	0.	0.	0.	1.235	0.	1.235
124	0.	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.	1.235	1.235
126	0.	0.	0.	0.	0.	0.	0.	0.
127	0.	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.618	0.618
141	0.	0.	0.	0.	0.	0.	0.	0.
142	0.	0.	0.	2.470	0.	1.235	1.853	5.558
145	0.	0.	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.618	0.	0.	0.	0.618
147	0.	0.	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.	0.	0.	0.
172	0.	0.	0.	0.	0.	0.	0.	0.
179	0.	0.	0.	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.618	0.	0.618
221	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	24.083	45.079	69.163
233	0.	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	1.853	1.235	3.088
320	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	0.	1.235	1.235
424	0.	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	3.705	8.028	11.733
432	0.	0.	0.	0.	0.	0.	0.	0.
433	2.470	16.673	4.940	24.701	53.107	159.321	542.804	804.018
510	0.	0.	0.	0.	0.	0.	0.	0.
530	0.	0.618	0.	0.	2.470	1.235	0.	4.323
610	0.	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	0.
760	0.	5.558	0.	1.853	15.438	4.323	3.088	30.259
TOTALS	5.558	26.554	4.940	31.494	83.983	211.194	663.222	1026.944

SLOPES = 4 . SUBBASIN = 11 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

SLOPES # 4 . SUBBASIN # 11 .

	SOILS						
CODED-LU	LE B	SG B	SG C	SH C	SkC	UT	
0	0.	0.	0.	0.	0.	0.	0.
111	0.	0.	0.	1.853	4.323	0.	6.175
112	0.	0.	0.	0.	0.	0.	0.
114	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	0.
122	0.	0.	0.	0.	0.	0.	0.
123	0.	0.	0.	0.	0.	0.	0.
124	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.	0.
126	0.	0.	0.	0.618	0.	0.	0.618
127	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.618	0.	0.618
142	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.	0.	0.
172	0.	0.	0.	0.	0.	0.	0.
179	0.	0.	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	6.175	0.	0.	6.175
233	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	1.853	0.	1.853
424	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.	0.
433	0.	4.940	0.618	5.558	15.438	2.470	29.024
510	0.	0.	0.	0.	0.	0.	0.
530	0.618	0.	0.	0.	2.470	0.	3.088
610	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	1.853	0.	1.853
760	0.	0.	0.	0.	0.	0.	0.
TOTALS	0.618	4.940	0.618	14.203	26.554	2.470	49.402

SLOPES # 4 . SUBBASIN # 11 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

SLOPES = 5 . SUBBASIN = 11 .

CODED-LU	SOILS CA C	CB C	CB D	CHC	CHF	BH C	BKC	
0	0.	0.	0.	0.	0.	0.	0.	0.
111	0.	0.	0.	3.705	13.586	1.235	2.470	20.996
112	0.	0.	0.618	0.	0.	0.	0.	0.618
114	0.	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	0.	0.
122	0.	0.	0.	0.	0.	0.	0.	0.
123	0.	0.	0.	0.	0.	0.	0.	0.
124	0.	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.	0.	0.	0.
127	0.	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.	0.	0.618	0.618
142	0.	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.618	1.853	0.	0.	2.470
146	0.	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.	0.	0.	0.
172	0.	0.	0.	0.	0.	0.	0.	0.
179	0.	0.	0.	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.618	0.	0.	0.	0.618
424	0.	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	1.235	0.	1.853	0.	3.088
432	0.	0.	0.	0.	0.	0.	0.	0.
433	0.	0.618	3.705	14.821	201.313	2.470	16.056	238.982
510	0.	0.	0.	0.	0.	0.	0.	0.
530	0.	0.	0.	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	0.
760	1.235	0.	0.618	0.	0.618	0.	0.	2.470
TOTALS	1.235	0.618	4.940	20.996	217.369	5.558	19.143	269.858

SLOPES = 5 . SUBBASIN = 11 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

SLOPES = 0 . SUBBASIN = 12 .

CODED-LU	SOILS 0	CB C	CB D	LD B	SM C	UT	
0	6.175	0.	0.	0.	0.	0.	6.175
111	1.235	4.940	3.088	3.088	3.088	0.	15.438
112	0.	0.	0.	0.	0.	0.	0.
114	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	0.
122	0.618	0.	0.	0.	0.	0.618	1.235
123	0.	0.	0.	0.	0.	0.	0.
124	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.	0.
126	0.	0.618	0.	0.	0.	0.	0.618
127	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.
141	0.	0.	0.	4.940	0.618	0.	5.558
142	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.	0.	0.
172	0.	0.	0.	0.	0.	0.	0.
179	0.	0.	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.	0.
433	1.235	1.853	6.175	11.115	0.	0.	20.378
510	0.	0.	0.	0.	0.	0.	0.
530	0.	0.	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.
760	0.	0.	0.	0.	0.	0.	0.
TOTALS	9.263	7.410	9.263	19.143	3.705	0.618	49.402

SLOPES = 0 . SUBBASIN = 12 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE1

SLOPES = 1 . SUBBASIN = 12 .

CODED-LU	SOILS Cb C	Cb D	LD B	BH C	BRC	
0	0.	0.	0.	0.	0.	0.
111	11.115	1.235	83.983	34.581	0.	130.915
112	0.	0.	11.115	0.	0.	11.115
114	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.
122	0.	0.	21.613	2.470	0.	24.083
123	0.	0.	1.235	0.	0.	1.235
124	0.	0.	1.853	0.	0.	1.853
125	0.	0.	0.	0.	0.	0.
126	0.618	0.	16.056	0.	0.	16.673
127	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.
141	3.705	0.	9.880	7.410	0.	20.996
142	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.
162	0.	0.	2.470	0.	0.	2.470
171	0.	0.	6.175	0.	0.	6.175
172	0.	0.	4.940	0.	0.	4.940
179	0.	0.	11.733	0.618	0.	12.351
211	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.
423	0.	0.	0.618	0.	0.	0.618
424	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.
433	0.618	0.	54.960	2.470	0.	58.047
510	0.	0.	0.	0.	0.	0.
530	0.	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.
760	0.	0.	3.705	0.	3.705	7.410
TOTALS	16.056	1.235	230.337	47.549	3.705	298.882

SLOPES = 1 . SUBBASIN = 12 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

SLOPES = 2 . SUBBASIN # 12 .

CODED-LU	SOILS 0	CB C	CB D	CMF	LD B	SH C	SKC	
0	1.235	0.	0.	0.	0.	0.	0.	1.235
111	6.175	322.348	107.449	0.	88.306	93.864	0.618	618.760
112	0.	17.908	3.088	0.	10.498	0.618	0.	32.111
114	0.	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	0.	0.
122	0.	16.520	0.618	0.	11.733	5.558	0.	36.434
123	0.	9.263	1.235	0.	12.968	0.618	0.	24.083
124	0.	1.235	0.618	0.	0.618	0.	0.	2.470
125	0.	0.618	0.	0.	0.	0.	0.	0.618
126	0.	27.171	15.438	0.	11.115	3.088	0.	56.812
127	0.	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.	0.
141	0.	6.175	3.705	0.	28.406	11.115	0.	49.402
142	0.	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.	2.470	2.470
146	0.	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	1.853	0.	0.	1.853
148	0.	0.	0.	0.	3.088	0.	0.	3.088
162	0.	3.705	0.	0.	10.498	0.	0.	14.203
171	0.	2.470	2.470	0.	17.908	6.175	0.	29.024
172	0.	4.323	0.	0.	3.088	0.	0.	7.410
179	0.	0.	0.	0.	5.558	0.	0.	5.558
211	0.	0.	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.	0.
423	0.	1.853	0.618	0.	1.235	0.	0.	3.705
424	0.	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.	0.	0.
433	5.558	100.039	34.581	1.235	118.565	3.088	6.793	269.858
510	0.	0.	0.	0.	0.	0.	0.	0.
530	0.	3.088	15.438	0.	0.	0.	0.	18.526
610	0.	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	0.
760	0.	2.470	0.	0.	16.056	0.	11.733	30.259
TOTALS	12.968	521.191	185.257	1.235	341.491	124.123	21.613	1207.879

SLOPES = 2 . SUBBASIN # 12 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

SLOPES = 2 . SUBBASIN = 12 .

	SOILS	
CODED-LU	UT	
0	0.618	0.618
111	20.996	20.996
112	1.235	1.235
114	0.	0.
115	0.	0.
121	0.	0.
122	8.645	8.645
123	0.	0.
124	0.	0.
125	0.	0.
126	5.558	5.558
127	0.	0.
131	0.	0.
132	0.	0.
141	0.	0.
142	0.	0.
145	0.	0.
146	0.	0.
147	0.	0.
148	0.	0.
162	0.	0.
171	0.	0.
172	0.	0.
179	0.	0.
211	0.	0.
212	0.	0.
221	0.	0.
231	0.	0.
233	0.	0.
241	0.	0.
320	0.	0.
411	0.	0.
412	0.	0.
413	0.	0.
414	0.	0.
421	0.	0.
422	0.	0.
423	1.853	1.853
424	0.	0.
431	0.	0.
432	0.	0.
433	0.618	0.618
510	0.	0.
530	0.	0.
610	0.	0.
751	0.	0.
752	0.	0.
753	0.	0.
759	0.	0.
760	0.	0.
TOTALS	39.522	39.522

SLOPES = 2 . SUBBASIN = 12 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN HURP SUB-BASIN
MAJOR VALUES ARE

PAGE 16

SLOPES = 3 . SUBBASIN = 12 .

CODE=LU	A	SOILS B	C	D	CMF	LO B	RM C	BMC	
0	1.053	0.	0.	0.	0.	0.	0.	0.	1.053
111	2.470	542.187	403.266	0.	0.	22.648	67.689	1.235	1059.673
112	0.	19.162	16.673	0.	0.	1.053	0.946	0.	37.699
114	0.	2.470	0.	0.	0.	0.	0.	0.	2.470
115	0.	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	1.235	0.	0.	0.	0.618	0.	0.	1.853
122	0.	15.436	11.733	0.	0.	1.235	0.618	0.	29.022
123	0.	20.996	20.378	0.	0.	1.053	0.946	0.	43.167
124	0.	1.053	4.323	0.	0.	0.	0.	0.	6.175
125	0.	7.416	25.938	0.	0.	0.	0.	0.	33.340
126	0.	20.554	43.227	0.	0.	1.765	2.470	0.	75.956
127	0.	0.	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.	0.	0.
141	0.	28.994	22.648	0.	0.	1.480	11.733	0.	65.856
142	0.	0.	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.618	0.	0.	0.	0.	0.	0.618
146	0.	0.	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	1.053	0.	0.	1.053
148	0.	0.618	0.	0.	0.	0.	0.	0.	0.618
162	0.	0.323	0.	0.	0.	1.053	0.	0.	6.175
171	0.	9.263	5.550	0.	0.	2.528	4.323	0.	27.171
172	0.	4.323	0.	0.	0.	1.053	0.	0.	6.175
179	0.	0.	6.175	0.	0.	0.	0.	0.	6.175
211	0.	0.	0.	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.	0.	0.
423	0.	2.470	1.853	0.	0.	0.888	0.	0.	72.410
426	0.	0.	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.	0.	0.	0.
433	10.494	248.245	309.340	0.020	85.836	10.050	1.853	0.	670.895
510	0.	0.	0.	0.	0.	0.	0.	0.	0.
530	0.	1.235	0.	0.	0.	0.	0.	0.	1.235
610	0.	0.	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	0.	0.
760	0.	9.263	16.050	0.	0.	0.	0.	11.733	37.051
TOTALS	14.091	930.021	980.001	0.020	140.561	132.760	14.021	2140.960	

SLOPES = 3 . SUBBASIN = 12 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN HURP SUB-BASIN
MAJOR VALUES ARE

SLOPES = 3 . SUBBASIN = 12 .

SUBCODELU	UI	SOILS
0	0.	0.
111	30.259	30.259
112	4.323	4.323
114	0.	0.
115	0.	0.
121	0.	0.
122	4.940	4.940
123	0.	0.
124	0.618	0.618
125	0.	0.
126	11.115	11.115
127	0.	0.
131	0.	0.
132	0.	0.
141	0.	0.
142	0.	0.
145	0.	0.
146	0.	0.
147	0.	0.
148	0.	0.
162	0.	0.
171	0.	0.
172	0.	0.
176	0.	0.
211	0.	0.
212	0.	0.
221	0.	0.
231	0.	0.
233	0.	0.
241	0.	0.
320	0.	0.
411	0.	0.
412	0.	0.
413	0.	0.
414	0.	0.
421	0.	0.
422	0.	0.
423	1.893	1.893
424	0.	0.
431	0.	0.
432	0.	0.
433	1.235	1.235
510	0.	0.
530	0.	0.
610	0.	0.
751	0.	0.
752	0.	0.
753	0.	0.
759	0.	0.
760	0.	0.
TOTALS	54.342	54.342

SLOPES = 3 . SUBBASIN = 12 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN PAGE 18
MAJOR VALUES ONLY

SLOPES = 0 . SUBBASIN = 12 .

	SOILS							
CUBCO-LU	0	CB C	CB D	CMF	LD B	BH C	SKC	
0	0.618	0.	0.	0.	0.	0.	0.	0.618
111	0.618	77.191	239.600	0.	3.088	23.466	0.	343.962
112	0.	4.940	14.203	0.	0.618	1.235	0.	20.996
114	0.	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	1.853	0.	0.	1.853
122	0.	1.853	10.498	0.	0.	0.	0.	12.351
123	0.	4.323	17.908	0.	0.	0.	0.	22.231
124	0.	1.235	9.880	0.	0.	0.	0.	11.115
125	0.	0.	0.	0.	0.	0.	0.	0.
126	0.	3.088	19.761	0.	0.	0.	0.	22.848
127	0.	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.	0.
141	0.	6.175	20.378	0.	3.088	0.	0.	29.641
142	0.	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	1.853	0.	0.	0.	0.	1.853
146	0.	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.	0.
171	0.	1.853	5.558	0.	0.	0.618	0.	8.028
172	0.	0.	0.	0.	0.	0.	0.	0.
179	0.	0.	4.323	0.	0.	0.	0.	4.323
211	0.	0.	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.	0.
423	0.	8.645	6.793	0.	1.853	0.	0.	17.291
424	0.	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.	0.	0.
433	0.	63.665	234.660	3.088	48.167	6.175	0.618	356.312
510	0.	0.	0.	0.	0.	0.	0.	0.
530	0.	0.	0.	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	0.
760	0.	5.558	9.263	0.	0.	0.	1.853	16.673
TOTALS	1.235	178.465	594.677	3.088	50.665	31.494	2.470	870.093

SLOPES = 0 . SUBBASIN = 12 .

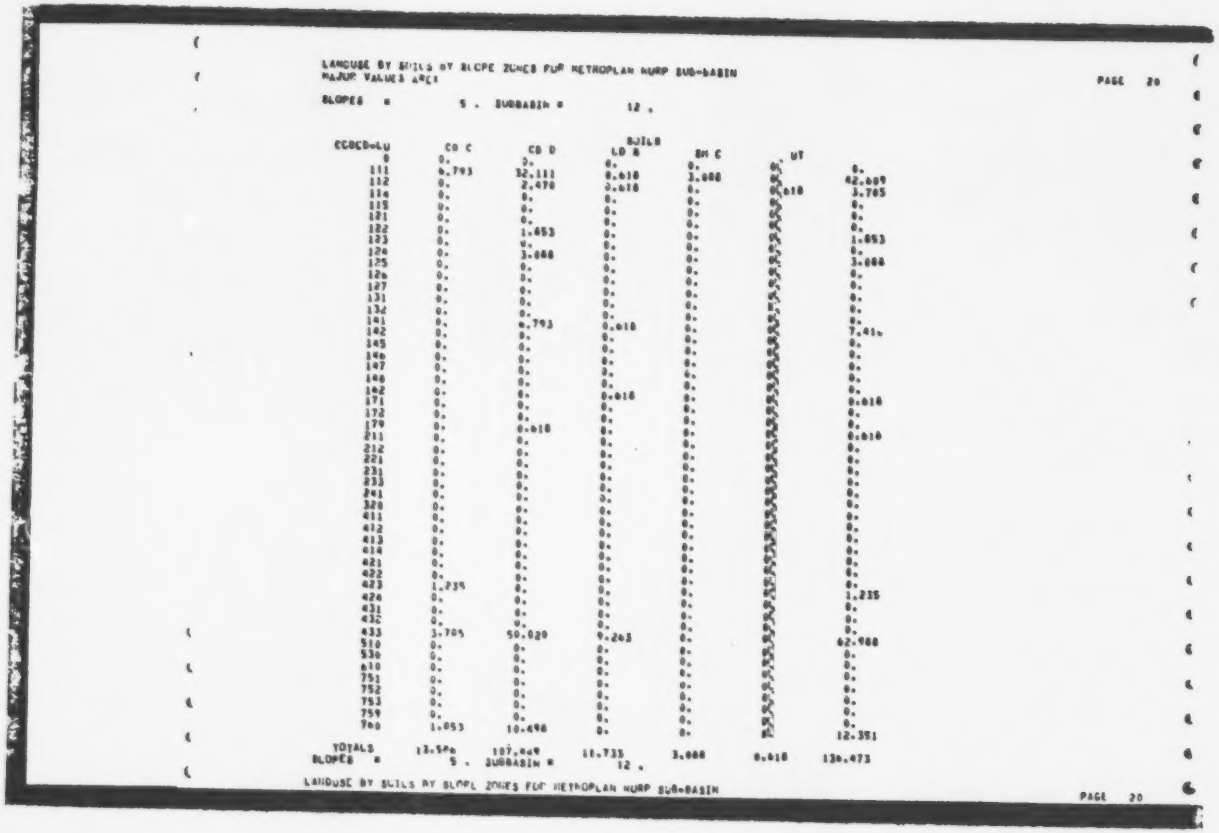
LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN PAGE 18

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE

SLOPES = 4 . SUBBASIN = 12 .

CODED-LU	UT	SOILS
0	0.	0.
111	0.175	0.175
112	4.968	4.968
114	0.	0.
115	0.	0.
121	0.	0.
122	0.793	0.793
123	0.	0.
124	0.	0.
125	0.	0.
126	0.	0.
127	0.	0.
131	0.	0.
132	0.	0.
141	0.	0.
142	0.	0.
145	0.	0.
146	0.	0.
147	0.	0.
148	0.	0.
162	0.	0.
171	0.	0.
172	0.	0.
179	0.	0.
211	0.	0.
212	0.	0.
221	0.	0.
231	0.	0.
233	0.	0.
241	0.	0.
320	0.	0.
411	0.	0.
412	0.	0.
413	0.	0.
414	0.	0.
421	0.	0.
422	0.	0.
423	0.	0.
424	0.	0.
431	0.	0.
432	0.	0.
433	0.618	0.618
510	0.	0.
530	0.	0.
610	0.	0.
751	0.	0.
752	0.	0.
753	0.	0.
759	0.	0.
760	0.	0.
TOTALS	18,526	18,526

SLOPES = 4 . SUBBASIN = 12 .



LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE

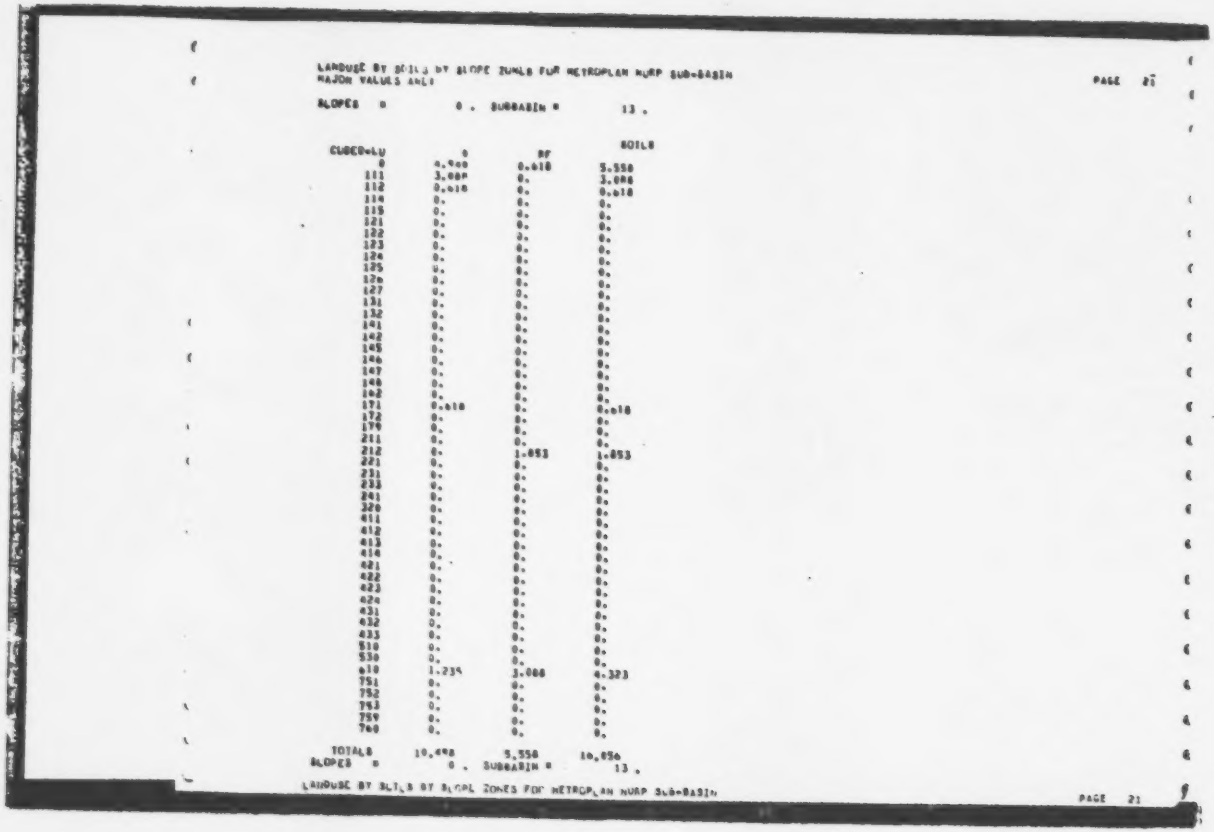
PAGE 20

SLOPES = 5 . SUBBASIN = 12 .

CCDCD-LU	SOILS CD C	CD D	LD B	BH C	WT	
0	0.	0.	0.	0.	0.	0.
111	0.793	32.111	0.618	3.888	0.	42.609
112	0.	2.470	0.618	0.	0.618	3.705
114	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.
122	0.	1.853	0.	0.	0.	1.853
123	0.	0.	0.	0.	0.	0.
124	0.	3.888	0.	0.	0.	3.888
125	0.	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.	0.
127	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.
141	0.	0.793	0.	0.	0.	0.
142	0.	0.	0.618	0.	0.	7.41.
145	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.
171	0.	0.	0.618	0.	0.	0.618
172	0.	0.	0.	0.	0.	0.
179	0.	0.	0.	0.	0.	0.
211	0.	0.618	0.	0.	0.	0.618
212	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.
423	1.235	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.	1.235
431	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.
433	3.705	50.020	0.	0.	0.	0.
510	0.	0.	0.263	0.	0.	62.988
536	0.	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.
760	1.853	10.498	0.	0.	0.	12.351
TOTALS	13.594	107.449	11.733	3.888	0.618	134.473
SLOPES =	5 .	SUBBASIN =	12 .			

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

PAGE 20



LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ONLY

PAGE 20

SLOPES 0 0. SUBBASIN # 13.

CLDCO+LU	A	DF	SOILS
0	4.440	0.618	5.058
111	3.008	0.	3.008
112	0.618	0.	0.618
114	0.	0.	0.
115	0.	0.	0.
121	0.	0.	0.
122	0.	0.	0.
123	0.	0.	0.
124	0.	0.	0.
125	0.	0.	0.
126	0.	0.	0.
127	0.	0.	0.
131	0.	0.	0.
132	0.	0.	0.
141	0.	0.	0.
142	0.	0.	0.
145	0.	0.	0.
146	0.	0.	0.
147	0.	0.	0.
148	0.	0.	0.
149	0.	0.	0.
171	0.618	0.	0.618
172	0.	0.	0.
179	0.	0.	0.
211	0.	0.	0.
212	0.	1.853	1.853
221	0.	0.	0.
231	0.	0.	0.
233	0.	0.	0.
241	0.	0.	0.
320	0.	0.	0.
411	0.	0.	0.
412	0.	0.	0.
413	0.	0.	0.
414	0.	0.	0.
421	0.	0.	0.
422	0.	0.	0.
423	0.	0.	0.
424	0.	0.	0.
431	0.	0.	0.
432	0.	0.	0.
433	0.	0.	0.
510	0.	0.	0.
530	0.	0.	0.
610	1.235	3.088	4.323
751	0.	0.	0.
752	0.	0.	0.
753	0.	0.	0.
759	0.	0.	0.
760	0.	0.	0.
TOTALS	10.498	5.558	16.056

SLOPES # 0 . SUBBASIN # 13 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

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LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

SLOPES = 1 . SUBBASIN = 13 .

CODED-LU	SOILS 0	CB C	CB D	RF	UT	
0	0.	0.	0.	0.	0.	0.
111	1.053	4.323	0.	0.	0.	6.175
112	0.	0.	0.	1.235	6.793	8.028
114	0.	0.	0.	0.	1.235	1.235
115	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	2.478	2.476
122	0.618	0.	0.	2.470	22.668	25.936
123	0.	2.470	0.	0.	0.	2.476
124	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.
126	0.	5.558	0.	0.	0.	5.558
127	0.	0.	0.	0.	0.	0.
131	0.	0.618	0.	0.	0.	0.618
132	0.	0.	0.	0.	0.	0.
141	0.	0.	0.	0.618	0.618	1.235
142	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.	0.
172	0.	0.	0.	0.	0.	0.
179	0.	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.
433	0.	0.	2.470	4.940	0.618	8.028
510	0.	0.	0.	0.	0.	0.
530	0.	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.
760	0.	0.	0.	0.	0.	0.
TOTALS	2,470	12,968	2,470	9,263	34,561	61,752

SLOPES = 1 . SUBBASIN = 13 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

PAGE 23

SLOPES = 2 . SUBBASIN = 13 .

CODED-LU	A	SOILS CB C	CB D	LD B	RF	SH C	UT	
0	3.705	0.	0.	0.	0.	0.	0.	3.705
111	4.323	72.250	4.940	1.853	0.	0.618	1.235	85.218
112	0.	0.	0.	0.	1.235	0.	2.470	3.705
114	0.	0.	0.618	0.618	0.	0.	2.470	3.705
115	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	2.470	2.470
122	1.853	17.908	0.	3.705	16.498	0.	28.480	68.370
123	0.	0.618	0.	0.	0.	0.	0.	0.618
126	0.	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.	0.	13.586
126	0.	13.586	0.	0.	0.	0.	0.	0.
127	0.	0.	0.	0.	0.	0.	0.	5.558
131	0.	5.558	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.	3.088
141	0.618	0.	0.	0.	0.618	0.	1.853	0.
142	0.	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.	1.235	1.235
148	0.	0.	0.	0.	0.	0.	0.	0.
152	0.	0.	0.	0.	0.	0.	0.	11.115
171	3.088	7.410	0.	0.	0.	0.	0.618	0.
172	0.	0.	0.	0.	0.	0.	0.618	20.554
179	0.	21.613	0.618	3.705	0.	0.	0.	0.
211	0.	0.	0.	0.	1.235	0.	0.	1.235
212	0.	0.	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.	0.	0.
433	0.	4.323	4.323	4.940	29.024	0.618	0.556	48.784
510	0.	0.	0.	0.	0.	0.	0.	0.
530	0.	0.	0.	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.618	0.	0.	0.618
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	0.
760	0.	0.	0.	0.	0.	0.	0.	0.
TOTALS	13.586	143.266	10.498	14.821	43.227	1.235	46.932	273.803

SLOPES = 2 . SUBBASIN = 13 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

PAGE 23

SLOPES = 1 . SUBBASIN = 13 .

	SOILS							
CUDCO-LU	A	CB C	CB D	LD B	RF	RM C	UT	
0	1.235	0.	0.	0.	0.	0.	0.	1.235
111	3.705	78.420	10.673	1.853	0.	0.	3.705	104.362
112	0.	6.940	0.018	0.	0.018	0.	1.853	8.828
114	0.	0.	0.	1.853	0.	0.	2.470	4.323
115	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	1.235	1.235
122	0.018	12.351	0.018	1.853	111.733	0.	16.673	43.846
123	0.	0.	0.	0.	0.	0.	0.	0.
124	0.	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.	0.	0.
126	0.	9.263	4.323	0.018	0.	0.	0.018	14.621
127	0.	0.	0.	0.	0.	0.	0.	0.
131	0.	1.235	0.	0.	0.	0.	0.	1.235
132	0.	0.	0.	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	3.705	0.	5.558	9.263
142	0.	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.	0.
171	0.	3.088	0.	0.	0.	0.	0.	3.088
172	0.	0.	0.	0.	0.	0.	0.	0.
179	0.	6.793	1.235	3.705	0.	0.	0.	11.733
211	0.	0.	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.018	0.	0.	0.018
221	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.	0.	0.
433	0.	6.940	13.580	0.020	111.733	1.235	3.088	42.609
510	0.	0.	0.	0.	0.	0.	0.	0.
530	0.	0.	0.	0.	0.	0.	0.	0.
610	0.018	0.	0.	0.	4.323	0.	0.	4.940
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	0.
760	0.	0.	0.	0.	0.	0.	0.	0.
TOTALS	4.175	121.035	37.651	17.968	32.729	1.235	36.199	251.333

SLOPES = 1 . SUBBASIN = 13 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES APPLY

SLOPES = 0 . SUBBASIN = 13 .

CODE=LU	0	SOILS Co C	Cb D	LD B	RF	UT	
0	0.	0.	0.	0.	0.010	0.	0.010
111	0.	9.263	7.010	0.		0.	16.673
112	0.	0.010	0.040	0.		0.010	0.175
114	0.	0.	0.	0.		0.	0.
115	0.	0.	0.	0.		0.	0.
121	0.	0.	0.	0.		0.010	0.010
122	0.	1.053	3.705	0.010		0.010	0.743
123	0.	0.	0.	0.		0.	0.
124	0.	0.	0.	0.		0.	0.
125	0.	0.	0.	0.		0.	0.020
126	0.	0.010	7.010	0.		0.	0.
127	0.	0.	0.	0.		0.	0.
131	0.	0.	0.	0.		0.	0.
132	0.	0.	0.	0.		0.	0.
141	0.	0.	0.	0.		0.	0.
142	0.	0.	0.	0.		0.	0.
145	0.	0.	0.	0.		0.	0.
146	0.	0.	0.	0.		0.	0.
147	0.	0.	0.	0.		0.	0.
148	0.	0.	0.	0.		0.	0.
162	0.	0.	0.	0.		0.	0.
171	0.	0.	0.	0.		0.	0.
172	0.	0.	0.	0.		0.	0.070
179	0.	1.053	0.010	0.		0.	0.
211	0.	0.	0.	0.		0.	0.
212	0.	0.	0.	0.		0.	0.
221	0.	0.	0.	0.		0.	0.
231	0.	0.	0.	0.		0.	0.
233	0.	0.	0.	0.		0.	0.
241	0.	0.	0.	0.		0.	0.
320	0.	0.	0.	0.		0.	0.
411	0.	0.	0.	0.		0.	0.
412	0.	0.	0.	0.		0.	0.
413	0.	0.	0.	0.		0.	0.
414	0.	0.	0.	0.		0.	0.
421	0.	0.	0.	0.		0.	0.
422	0.	0.	0.	0.		0.	0.
423	0.	0.	0.	0.		0.	0.
424	0.	0.	0.	0.		0.	0.
431	0.	0.	0.	0.		0.	0.
432	0.	0.	0.	0.		0.	0.
433	0.018	0.175	36.434	1.053	0.550	0.010	51.255
510	0.	0.	0.	0.		0.	0.
530	0.	0.	0.	0.		0.	0.
610	0.	0.	0.	0.		0.	0.
751	0.	0.	0.	0.		0.	0.
752	0.	0.	0.	0.		0.	0.
753	0.	0.	0.	0.		0.	0.
759	0.	0.	0.	0.		0.	0.
769	0.	0.	0.	0.		0.	0.
TOTALS	0.018	20.378	60.517	2.470	0.175	2.470	92.029

SLOPES = 0 . SUBBASIN = 13 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

SLOPES = 5 . SUBBASIN = 13 .

	SOILS		
CODES=LU	CO C	CO D	
0	0.	0.	0.
111	1.235	0.618	1.853
112	0.	0.	0.
114	0.	0.618	0.618
115	0.	0.	0.
121	0.	0.	0.
122	0.618	2.470	3.088
123	0.	0.	0.
124	0.	0.	0.
125	0.	0.	0.
126	0.	0.	0.
127	0.	0.	0.
131	0.	0.	0.
132	0.	0.	0.
141	0.	0.	0.
142	0.	0.	0.
145	0.	0.	0.
146	0.	0.	0.
147	0.	0.	0.
148	0.	0.	0.
162	0.	0.	0.
171	0.	0.	0.
172	0.	0.	0.
179	0.	0.	0.
211	0.	0.	0.
212	0.	0.	0.
221	0.	0.	0.
231	0.	0.	0.
233	0.	0.	0.
241	0.	0.	0.
320	0.	0.	0.
411	0.	0.	0.
412	0.	0.	0.
413	0.	0.	0.
414	0.	0.	0.
421	0.	0.	0.
422	0.	0.	0.
423	0.	0.	0.
424	0.	0.	0.
431	0.	0.	0.
432	0.	0.	0.
433	0.618	13.498	11.115
510	0.	0.	0.
530	0.	0.	0.
610	0.	0.	0.
751	0.	0.	0.
752	0.	0.	0.
753	0.	0.	0.
759	0.	0.	0.
700	0.	0.	0.
TOTALS	2.470	16.203	16.673

SLOPES = 5 . SUBBASIN = 13 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN HUPP SUB-BASIN PAGE 27
RAIN VALUES ARE

SLOPES 0 0 . SUBBASIN = 21 .

CODE(-LU	0	SOILS CB C	CB D	LD B	Qm C	
0	2.470	0.010	0.010	0.	0.	3.705
111	1.953	6.045	25.319	1.053	1.235	36.904
112	0.	0.793	0.010	0.	1.235	8.045
114	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.
122	0.	0.	0.	0.	0.	0.
123	0.	0.	0.	0.	0.	0.
124	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.
126	0.	1.235	0.	0.	0.	1.235
127	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.	0.
142	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.
171	0.	1.010	0.010	0.	0.	1.235
172	0.	0.	0.	0.	0.	0.
179	0.	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.
413	0.	0.323	0.	0.	0.	0.323
414	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.
423	0.	0.010	0.010	0.	0.	1.235
424	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.
433	0.	0.	0.175	0.	0.	0.175
510	0.	0.	0.	0.	0.	0.
530	0.	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.
760	0.	0.	0.	0.	0.	0.
TOTALS	4.423	22.868	33.464	1.053	2.476	65.458

SLOPES 0 0 . SUBBASIN = 21 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN HUPP SUB-BASIN PAGE 27

LANDUSE BY SOILS BY SLOPE ZONES FOR PETROPLAN HURP SUB-BASIN
MAJOR VALUES ARE:

PAGE 20

SLOPES = 1 . SUBBASIN = 21 .

CODE=LU	CP C	LD B	SOILS BM C	
0	0.	0.	0.	0.
111	0.	1.853	0.940	0.793
112	2.470	0.	0.610	3.086
114	0.	0.	0.	0.
115	0.	0.	0.	0.
121	0.	0.	0.	0.
122	0.	0.	0.	0.
123	0.	0.	0.	0.
124	0.	0.	0.	0.
125	0.	0.	0.	0.
126	0.	0.	0.	0.
127	0.	0.	0.	0.
131	0.	0.	0.	0.
132	0.	0.	0.	0.
141	0.	0.610	0.	0.610
142	0.	0.	0.	0.
145	0.	0.	0.	0.
146	0.	0.	0.	0.
147	0.	0.	0.	0.
148	0.	0.	0.	0.
162	0.	0.	0.	0.
171	0.	0.610	0.	0.610
172	0.	0.	0.	0.
179	0.	0.605	0.	0.605
211	0.	0.	0.	0.
212	0.	0.	0.	0.
221	0.	0.	0.	0.
231	0.	0.	0.	0.
233	0.	0.	0.	0.
241	0.	0.	0.	0.
289	0.	0.	0.	0.
411	0.	0.	0.	0.
412	0.	0.	0.	0.
413	0.	0.	0.	0.
414	0.	0.	0.	0.
421	0.	0.	0.	0.
422	0.	0.	0.	0.
423	0.	0.	0.	0.
424	0.	0.	0.	0.
431	0.	0.	0.	0.
432	0.	0.	0.	0.
433	0.	0.	0.	0.
510	0.	0.	0.	0.
530	0.	0.	0.	0.
610	0.	0.	0.	0.
751	0.	0.	0.	0.
752	0.	0.	0.	0.
753	0.	0.	0.	0.
759	0.	0.	0.	0.
7oo	0.	0.	0.	0.
TOTALS	2.470	11.723	5.550	19.7o1

SLOPES = 1 . SUBBASIN = 21 .

LANDUSE BY SOILS BY SLOPE ZONES FOR PETROPLAN HURP SUB-BASIN

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE

SLOPES = 2 , SUBBASIN = 21 ,

CODES=LU	CA C	CB D	BUILD CHC	LD B	LE B	RG C	RI C	
0	0.	0.	0.	0.	0.	0.	0.	0.
111	150.780	44.462	0.445	57.430	0.445	9.263	20.083	311.233
112	37.069	3.705	0.	12.908	13.584	0.	11.115	79.043
114	0.	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	1.235	65.210
122	73.605	4.323	0.	6.175	1.235	0.	2.470	12.350
123	0.445	0.	0.	0.	0.	0.	0.	3.088
124	3.088	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	1.853	0.	0.926	0.	31.494
126	15.435	4.323	0.	0.	0.	0.	0.	2.470
127	2.470	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	9.263	48.784
141	22.466	3.705	0.	12.351	0.	0.	0.	0.
142	0.	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.	0.	0.793
147	2.470	4.323	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.618	83.366
171	32.111	0.	0.	98.437	0.	0.	1.235	2.470
172	0.	0.	0.	1.235	0.	0.	0.	38.259
179	8.028	0.	0.	12.968	0.	9.263	0.	0.
211	0.	0.	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.	2.470
241	0.618	0.	0.	0.	0.853	0.	0.	0.
320	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	1.853	5.558
423	3.705	0.	0.	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.	0.	0.	3.088
431	0.618	0.	0.	2.470	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.	0.	0.
433	33.346	0.793	0.	9.263	0.880	0.445	0.235	62.370
510	0.	0.	0.	0.	0.	0.	0.	9.880
530	1.853	0.	0.	0.028	0.	0.	0.	0.
610	0.	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	5.556	46.314
760	11.115	1.853	0.	10.673	11.115	0.		
TOTALS	410.229	73.485	0.445	192.050	39.522	37.052	58.065	826.268

SLOPES = 2 , SUBBASIN = 21 ,

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN HURP SUB-BASIN
MAJOR VALUES ARE:

PAGE 30

SLOPES = 3 . SUBBASIN = 21 .

CODED-LU	O	SOILS Cb C	Cb D	CMC	CMF	LO A	LE B	
0	1.235	2.470	0.	0.	1.235	0.	0.	0.988
111	0.618	413.124	198.843	66.075	0.618	51.255	10.673	755.233
112	0.	45.697	23.466	0.	0.	0.323	0.	73.685
114	0.	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	0.	0.
122	0.	41.374	6.175	0.	0.	2.470	0.	50.020
123	0.	1.235	0.	0.	0.	0.	0.	1.235
124	0.	9.880	5.558	0.	0.	1.235	0.	16.673
125	0.	0.	0.	0.	0.	0.	0.	0.
126	0.	29.624	6.645	0.	0.	1.235	0.	38.504
127	0.	1.235	0.	0.	0.	0.	0.	1.235
131	0.	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.	0.
141	0.	28.406	16.056	0.	0.	1.235	0.	45.697
142	0.	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.	0.	0.
147	0.	1.088	1.235	0.	0.	0.	0.	0.323
148	0.	0.	0.	0.	0.	0.	0.	0.
152	0.	0.	0.	0.	0.	0.	0.	0.
171	0.	58.287	6.793	0.	0.	15.438	2.470	62.988
172	0.	0.	0.	0.	0.	0.	0.	0.
179	0.	9.263	3.705	0.	0.	0.618	0.	13.586
211	0.	0.	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.	0.
241	0.	1.853	0.	0.	0.	0.	0.323	0.175
310	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.	0.
423	0.	0.988	0.618	0.	0.618	0.	0.	0.175
424	0.	0.	0.	0.	0.	0.	0.	0.
431	0.	1.853	0.	0.	0.	0.	0.	1.853
432	0.	0.	0.	0.	0.	0.	0.	0.
433	0.	61.605	31.494	9.880	2.765	4.940	3.088	110.712
510	0.	0.	0.	0.	0.	0.	0.	0.
530	0.	0.618	0.	0.	0.	0.618	0.	1.235
610	0.	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	0.
760	0.	1.853	2.470	0.020	110733	5.556	4.323	33.944
TOTALS	1.853	897.803	385.057	85.963	29.936	88.924	36.676	1234.433

SLOPES = 3 . SUBBASIN = 21 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAPLP VALUES APLI

SLOPES = 3 . SUBBASIN = 21 .

CODED-LU	SOILS BG C	SOILS BM C	SOILS
0	0.	0.	0.
111	16.954	14.821	31.876
112	0.	3.088	3.088
114	0.	0.	0.
115	0.	0.	0.
121	0.	0.	0.
122	0.	0.	0.
123	0.	0.	0.
124	0.	0.	0.
125	0.	0.	0.
126	0.	2.470	2.470
127	0.	0.	0.
131	0.	0.	0.
132	0.	0.	0.
141	0.	5.550	5.550
142	0.	0.	0.
145	0.	0.	0.
146	0.	0.	0.
147	0.	0.	0.
148	0.	0.	0.
162	0.	0.	0.
171	0.	0.	0.
172	0.	0.	0.
174	1.235	0.618	1.853
211	0.	0.	0.
212	0.	0.	0.
221	0.	0.	0.
231	0.	0.	0.
233	0.	0.	0.
241	0.	0.	0.
320	0.	0.	0.
411	0.	0.	0.
412	0.	0.	0.
413	0.	0.	0.
414	0.	0.	0.
421	0.	0.	0.
422	0.	0.	0.
423	0.618	0.	0.618
424	0.	0.	0.
431	0.	0.	0.
432	0.	0.	0.
433	3.088	0.	3.088
510	0.	0.	0.
530	0.	0.	0.
610	0.	0.	0.
751	0.	0.	0.
752	0.	0.	0.
753	0.	0.	0.
759	0.	0.	0.
760	1.853	1.853	3.705
TOTALS	22.848	28.400	51.255

SLOPES = 3 . SUBBASIN = 21 .

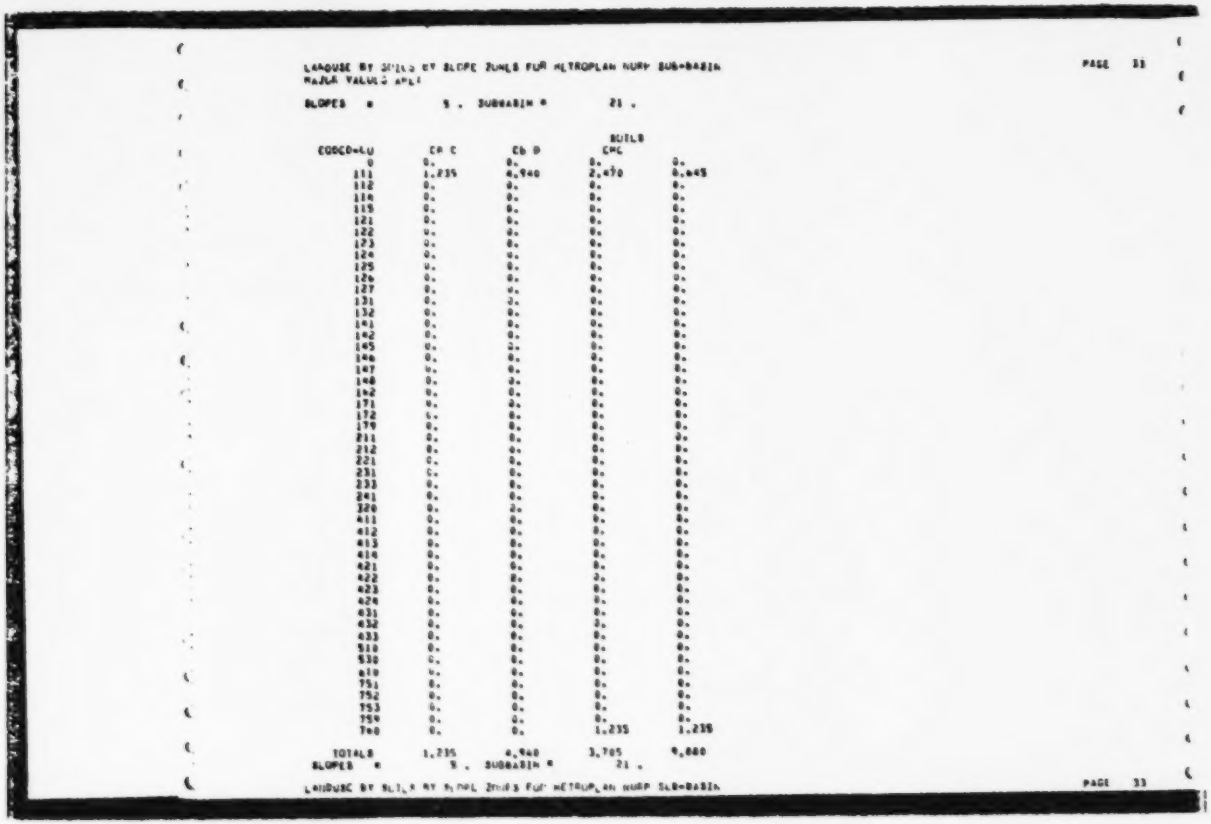
LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN PAGE 32
MAJOR VALUES ONLY

SLOPES = 4 . SUBBASIN = 21 .

			SOILS					
CODED-LU	A	CB C	CB D	CMC	CMF	LD B	SH C	
0	0.	0.618	0.	0.	0.	0.	0.	0.618
111	0.618	66.075	88.924	7.410	1.235	12.351	1.853	178.465
112	0.	11.733	4.940	0.	0.	0.	0.618	17.291
114	0.	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	0.	0.
122	0.	0.618	0.	0.	0.	4.323	0.	4.940
123	0.	0.	0.	0.	0.	0.	0.	0.
124	0.	1.235	2.470	0.	0.	0.	0.	3.705
125	0.	0.	0.	0.	0.	0.	0.	0.
126	0.	0.	1.235	0.	0.	0.	0.618	1.853
127	0.	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.	0.
141	0.	1.853	1.853	0.	0.	0.618	0.618	4.940
142	0.	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.	0.
171	0.	0.618	0.	0.	0.	0.618	0.	1.235
172	0.	0.	0.	0.	0.	0.	0.	0.
179	0.	1.235	0.	0.	0.	0.	0.	1.235
211	0.	0.	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	3.705	0.	0.	0.	0.	3.705
424	0.	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.	0.	0.
433	0.	2.470	13.586	2.470	3.088	0.618	0.	22.231
510	0.	0.	0.	0.	0.	0.	0.	0.
530	0.	1.235	0.	0.	0.	0.	0.	1.235
610	0.	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	0.
760	0.	0.	1.235	1.853	9.263	0.	0.	12.351
TOTALS	0.618	87.689	117.947	11.733	13.586	18.526	3.705	253.803

SLOPES = 4 . SUBBASIN = 21 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN PAGE 32



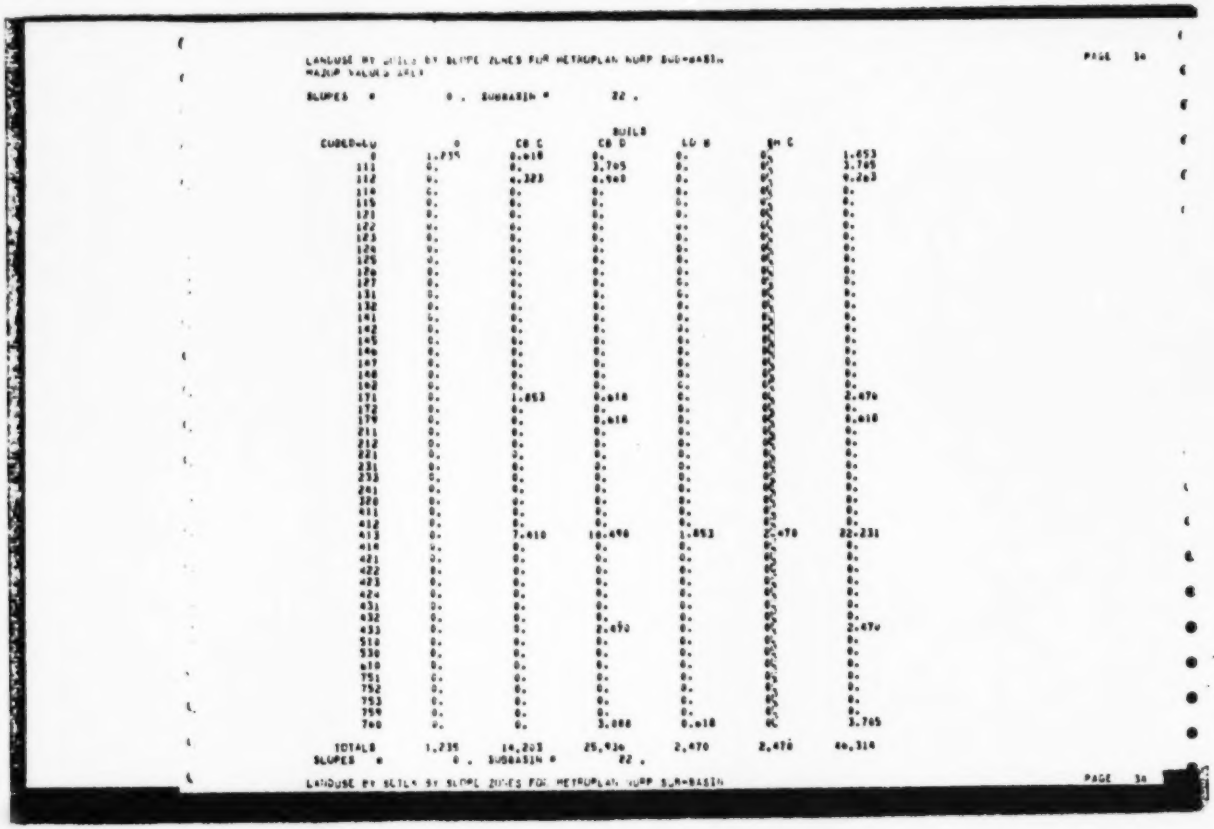
LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN PAGE 33
MAJOR VALUES ONLY

SLOPES = 5 . SUBBASIN = 21 .

CODED+LU	CN C	CN D	BUILD CMC	
0	0.	0.	0.	0.
111	1.235	4.940	2.470	0.445
112	0.	0.	0.	0.
114	0.	0.	0.	0.
115	0.	0.	0.	0.
121	0.	0.	0.	0.
122	0.	0.	0.	0.
123	0.	0.	0.	0.
124	0.	0.	0.	0.
125	0.	0.	0.	0.
126	0.	0.	0.	0.
127	0.	0.	0.	0.
131	0.	0.	0.	0.
132	0.	0.	0.	0.
141	0.	0.	0.	0.
142	0.	0.	0.	0.
145	0.	0.	0.	0.
146	0.	0.	0.	0.
147	0.	0.	0.	0.
148	0.	0.	0.	0.
162	0.	0.	0.	0.
171	0.	0.	0.	0.
172	0.	0.	0.	0.
179	0.	0.	0.	0.
211	0.	0.	0.	0.
212	0.	0.	0.	0.
221	0.	0.	0.	0.
231	0.	0.	0.	0.
233	0.	0.	0.	0.
241	0.	0.	0.	0.
280	0.	0.	0.	0.
411	0.	0.	0.	0.
412	0.	0.	0.	0.
413	0.	0.	0.	0.
414	0.	0.	0.	0.
421	0.	0.	0.	0.
422	0.	0.	0.	0.
423	0.	0.	0.	0.
424	0.	0.	0.	0.
431	0.	0.	0.	0.
432	0.	0.	0.	0.
433	0.	0.	0.	0.
510	0.	0.	0.	0.
530	0.	0.	0.	0.
610	0.	0.	0.	0.
751	0.	0.	0.	0.
752	0.	0.	0.	0.
753	0.	0.	0.	0.
759	0.	0.	0.	0.
760	0.	0.	1.235	1.235
TOTALS	1.235	4.940	3.705	9.880

SLOPES = 5 . SUBBASIN = 21 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN PAGE 33



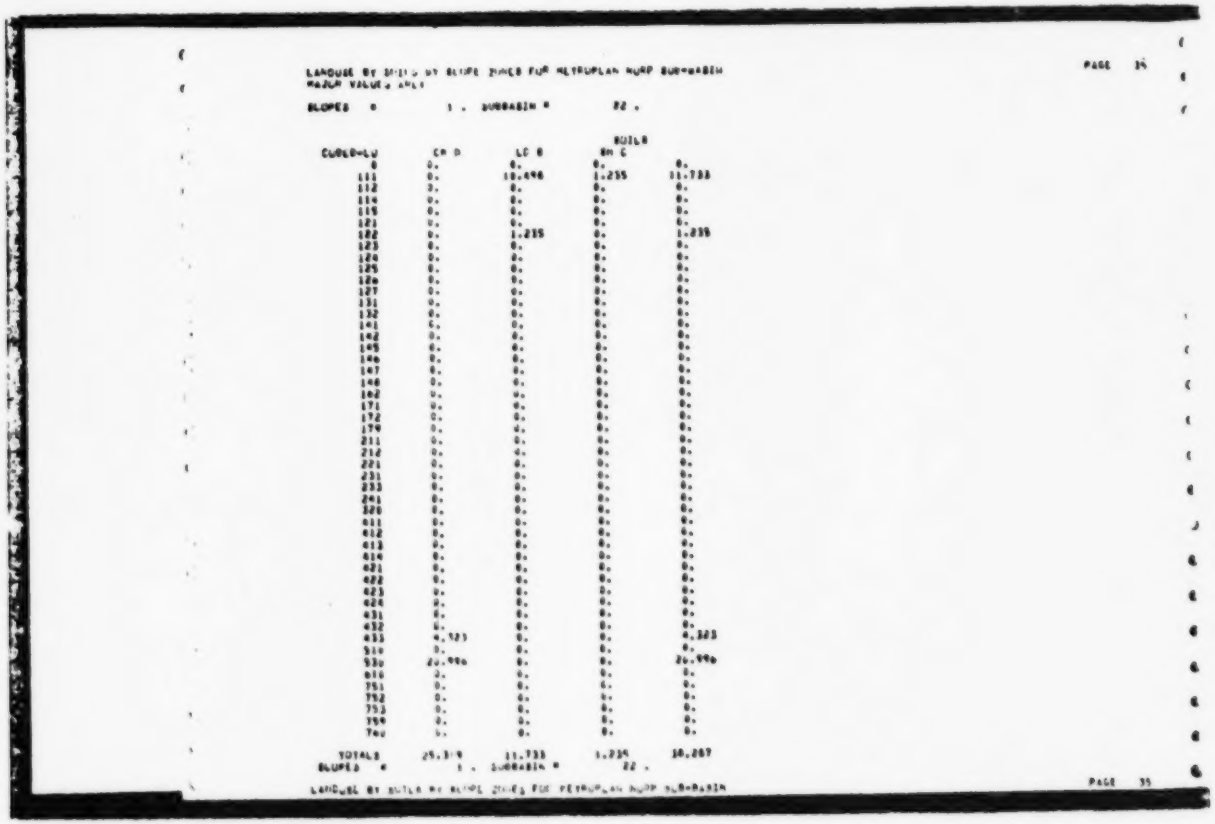
LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN PAGE 3a
MAJOR VALUES ONLY

SLOPES = 0 . SUBBASIN = 22 .

	SOILS					
CUBED-LU	O	CB C	CB D	LD B	SM C	
0	1.235	0.618	0.	0.	0.	1.853
111	0.	0.	3.705	0.	0.	3.705
112	0.	4.323	4.940	0.	0.	9.263
114	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.
122	0.	0.	0.	0.	0.	0.
123	0.	0.	0.	0.	0.	0.
124	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.	0.
127	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.	0.
142	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.
171	0.	1.853	0.618	0.	0.	2.470
172	0.	0.	0.	0.	0.	0.
179	0.	0.	0.618	0.	0.	0.618
211	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.
413	0.	7.410	10.490	1.853	2.470	22.231
414	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.
433	0.	0.	2.470	0.	0.	2.470
510	0.	0.	0.	0.	0.	0.
530	0.	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.
760	0.	0.	3.088	0.618	0.	3.705
TOTALS	1.235	14.203	25.936	2.470	2.470	46.314

SLOPES = 0 . SUBBASIN = 22 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN PAGE 3a



LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NORP SUBBASIN
MAJOR VALUES ONLY

PAGE 35

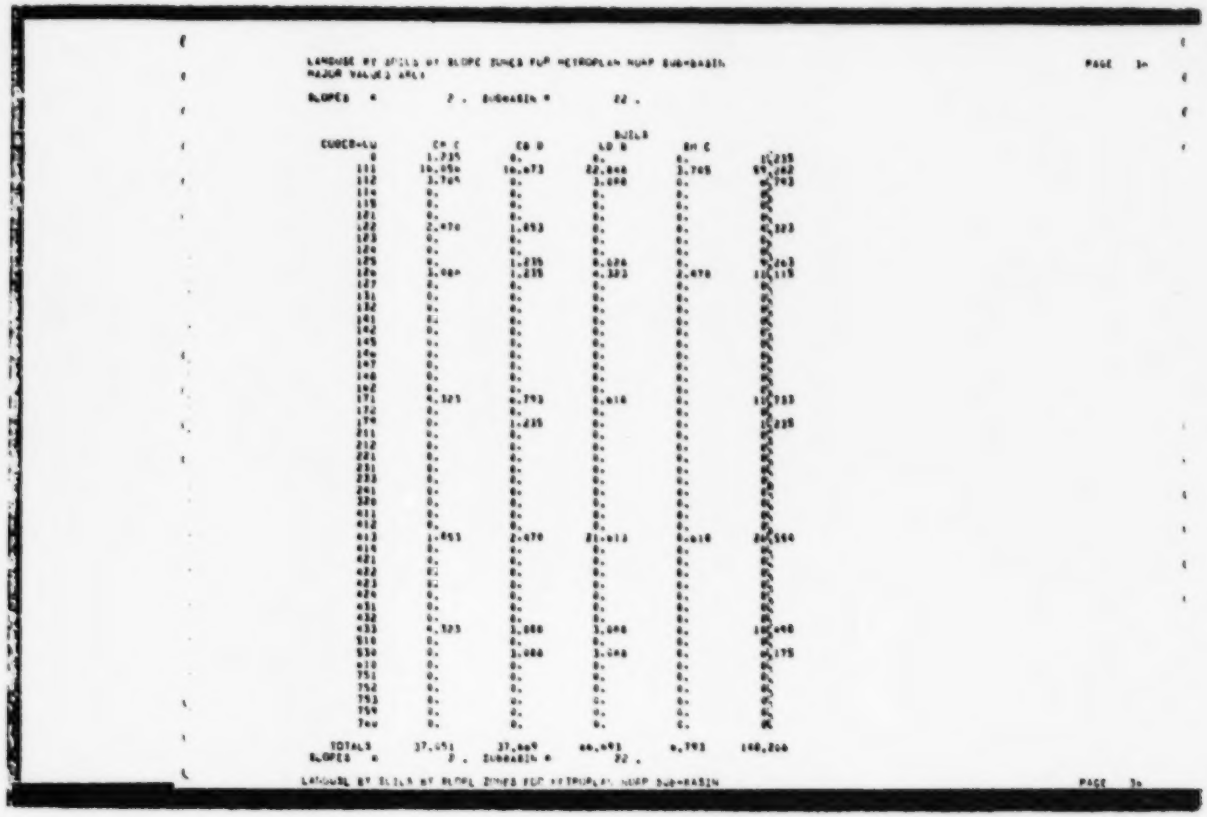
SLOPES = 1. SUBBASIN = 22.

CURVE-LU	SOILS A	SOILS B	SOILS C	SOILS D
0	0.	0.	0.	0.
111	0.	10.496	1.235	11.733
112	0.	0.	0.	0.
114	0.	0.	0.	0.
115	0.	0.	0.	0.
121	0.	0.	0.	0.
122	0.	1.235	0.	1.235
123	0.	0.	0.	0.
124	0.	0.	0.	0.
125	0.	0.	0.	0.
126	0.	0.	0.	0.
127	0.	0.	0.	0.
131	0.	0.	0.	0.
132	0.	0.	0.	0.
141	0.	0.	0.	0.
142	0.	0.	0.	0.
145	0.	0.	0.	0.
146	0.	0.	0.	0.
147	0.	0.	0.	0.
148	0.	0.	0.	0.
149	0.	0.	0.	0.
171	0.	0.	0.	0.
172	0.	0.	0.	0.
174	0.	0.	0.	0.
211	0.	0.	0.	0.
212	0.	0.	0.	0.
221	0.	0.	0.	0.
231	0.	0.	0.	0.
232	0.	0.	0.	0.
241	0.	0.	0.	0.
242	0.	0.	0.	0.
611	0.	0.	0.	0.
612	0.	0.	0.	0.
613	0.	0.	0.	0.
614	0.	0.	0.	0.
621	0.	0.	0.	0.
622	0.	0.	0.	0.
623	0.	0.	0.	0.
624	0.	0.	0.	0.
631	0.	0.	0.	0.
632	0.	0.	0.	0.
633	1.323	0.	0.	1.323
634	0.	0.	0.	0.
635	22.996	0.	0.	22.996
636	0.	0.	0.	0.
751	0.	0.	0.	0.
752	0.	0.	0.	0.
753	0.	0.	0.	0.
759	0.	0.	0.	0.
760	0.	0.	0.	0.
TOTALS	24.319	11.733	1.235	36.287

SLOPES = 1. SUBBASIN = 22.

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NORP SUBBASIN

PAGE 35



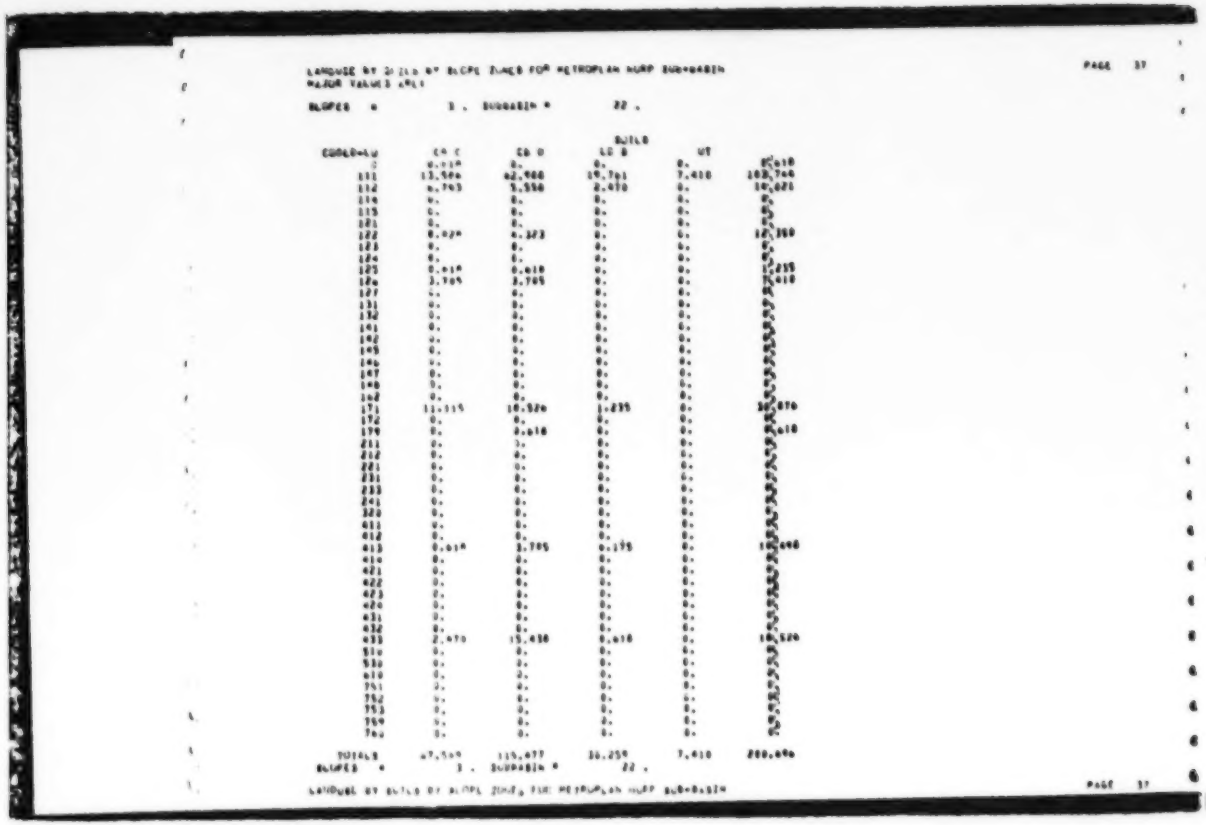
LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NORP SUB-BASIN PAGE 3a
MAJOR VALUES ARE:

SLOPES = 2 . SUBBASIN = 22 .

	SOILS				
CODED-LU	CM C	CB D	LD B	RH C	
0	1.235	0.	0.	0.	1.235
111	16.056	16.673	22.848	3.705	59.282
112	3.705	0.	3.088	0.	6.793
114	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
122	2.470	1.853	0.	0.	4.323
123	0.	0.	0.	0.	0.
124	0.	0.	0.	0.	0.
125	0.	1.235	8.026	0.	9.263
126	3.088	1.235	4.323	2.470	11.115
127	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.
142	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.
171	4.323	6.793	8.618	0.	11.733
172	0.	0.	0.	0.	0.
174	0.	1.235	0.	0.	1.235
211	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.
413	1.853	2.470	21.613	8.618	26.554
414	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.
433	4.323	3.088	3.088	0.	10.498
510	0.	0.	0.	0.	0.
530	0.	3.088	3.088	0.	6.175
610	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.
754	0.	0.	0.	0.	0.
760	0.	0.	0.	0.	0.
TOTALS	37.051	37.669	66.693	6.793	148.206

SLOPES = 2 . SUBBASIN = 22 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NORP SUB-BASIN PAGE 3a



LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NORP SUB-BASIN
MAJOR VALUES ONLY

PAGE 37

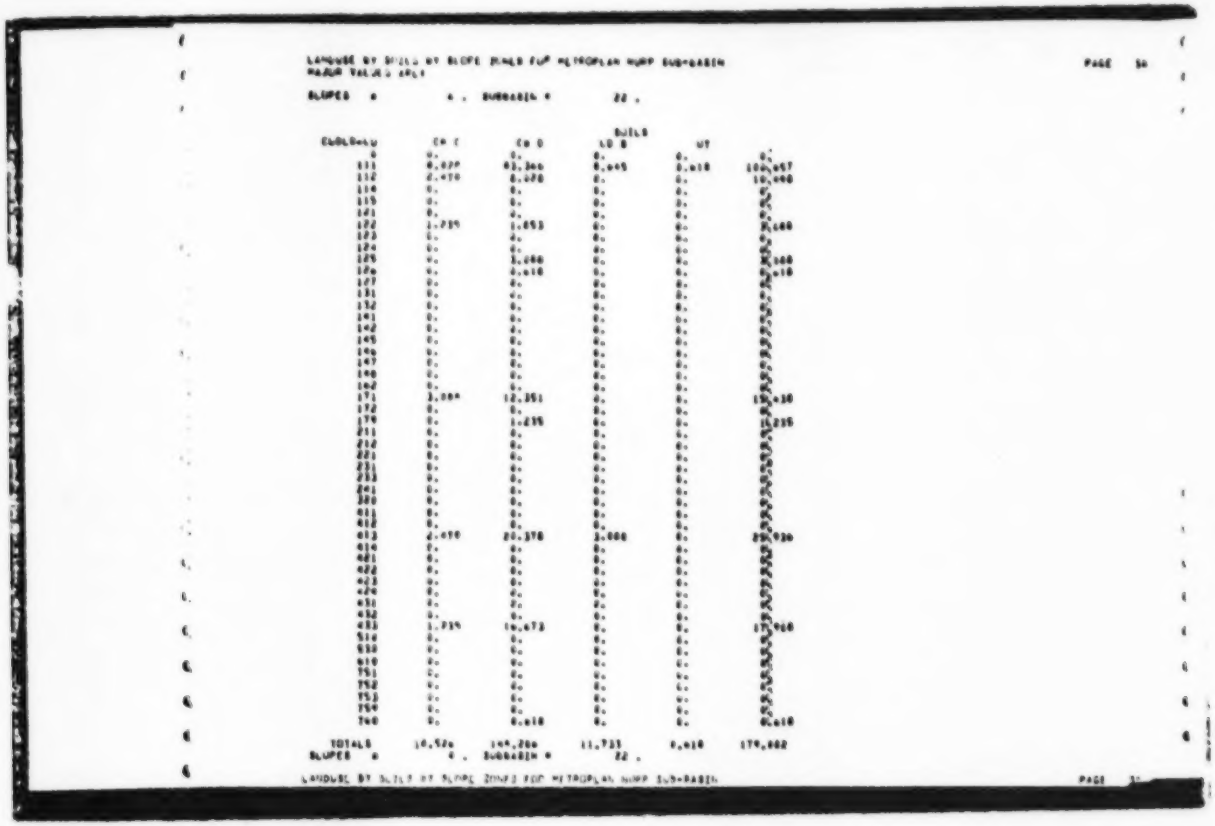
SLOPES = 1 . SUBBASIN = 22 .

CODED-LU	CA C	CB D	SOILS LD B	UT	
0	0.618	0.	0.	0.	0.618
111	13.586	62.988	19.761	7.410	103.744
112	6.763	5.550	2.470	0.	14.621
114	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
122	0.024	4.323	0.	0.	12.350
123	0.	0.	0.	0.	0.
124	0.	0.	0.	0.	0.
125	0.618	0.618	0.	0.	1.235
126	3.705	3.705	0.	0.	7.410
127	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.
142	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.
171	11.115	10.526	1.235	0.	30.876
172	0.	0.	0.	0.	0.
179	0.	0.618	0.	0.	0.618
211	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.
413	0.618	3.705	6.175	0.	10.498
414	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.
433	2.470	15.438	0.618	0.	18.526
510	0.	0.	0.	0.	0.
530	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.
760	0.	0.	0.	0.	0.
TOTALS	47.569	115.477	30.259	7.410	200.696

SLOPES = 1 . SUBBASIN = 22 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NORP SUB-BASIN

PAGE 37



LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NORP SUB-BASIN
MAJOR VALUES ARLY

PAGE 5A

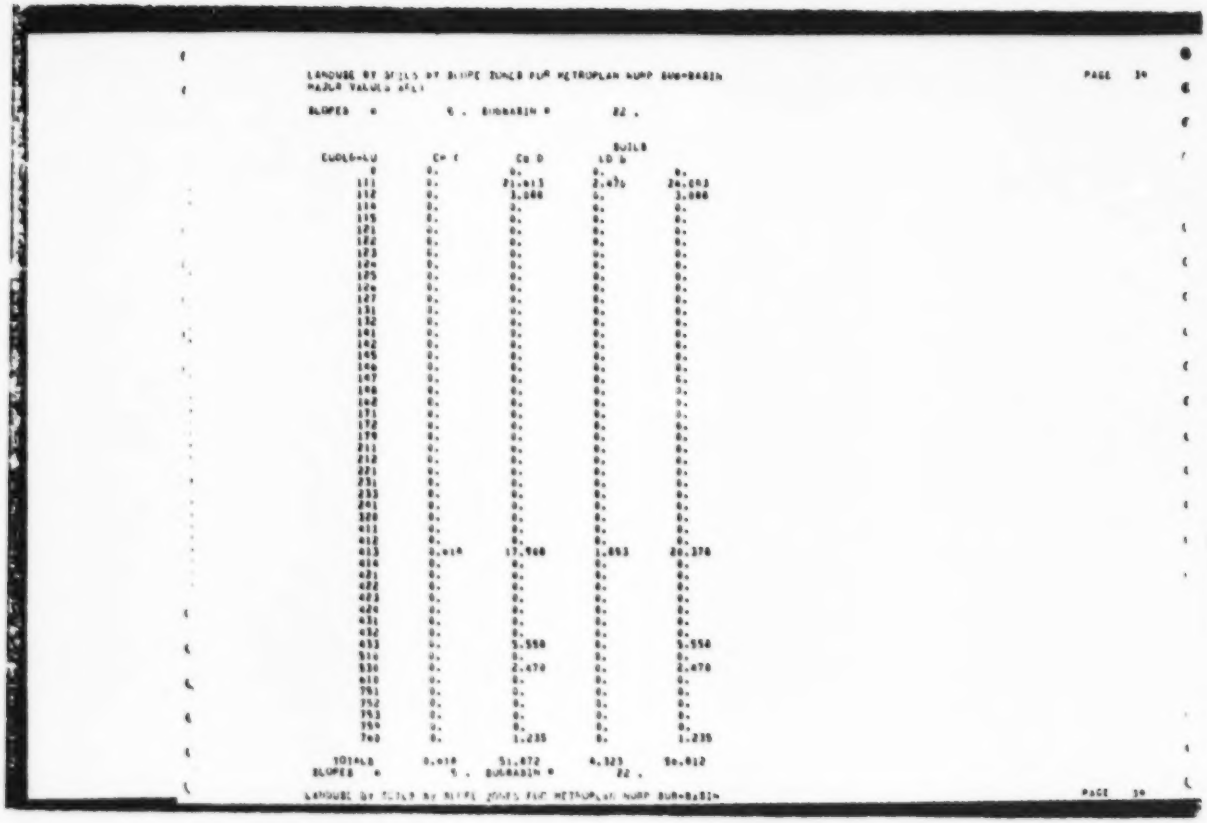
SLOPES = 4 . SUBBASIN = 22 .

CUBLD+LU	CM C	CM D	SOILS LD B	UT	
0	0.	0.	0.	0.	0.
111	0.020	83.366	0.045	0.010	100.657
112	2.470	8.020	0.	0.	10.490
114	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
122	1.235	1.053	0.	0.	2.100
123	0.	0.	0.	0.	0.
124	0.	0.	0.	0.	0.
125	0.	3.000	0.	0.	3.000
126	0.	0.010	0.	0.	0.010
127	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.
142	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.
171	3.000	12.351	0.	0.	15.430
172	0.	0.	0.	0.	0.
179	0.	1.235	0.	0.	1.235
211	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.
413	2.470	20.378	3.000	0.	25.936
414	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.
433	1.235	16.673	0.	0.	17.900
510	0.	0.	0.	0.	0.
530	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.
760	0.	0.010	0.	0.	0.010
TOTALS	10.526	149.206	11.733	0.010	179.882

SLOPES = 4 . SUBBASIN = 22 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NORP SUB-BASIN

PAGE 5B



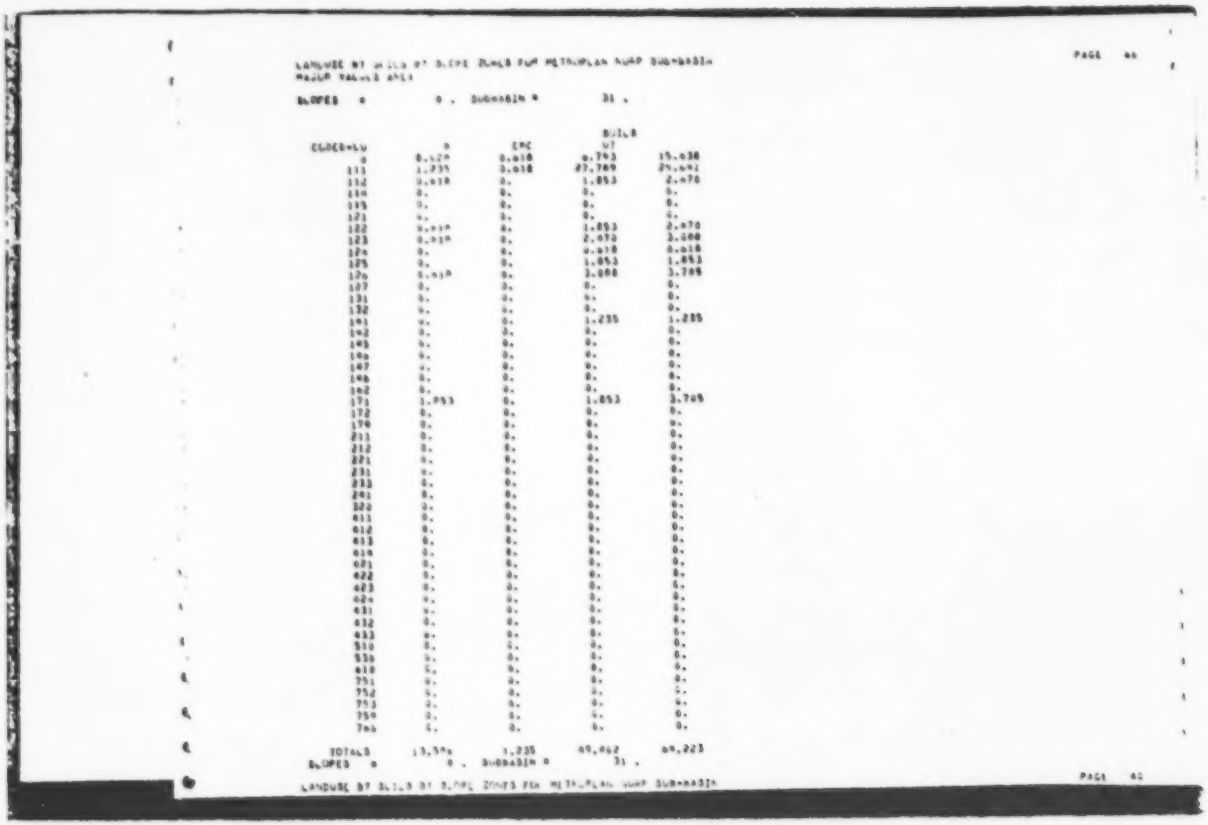
LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN PAGE 39
MAJOR VALUES ARE:

SLOPES = 5 . SUBBASIN = 22 .

CUDLG-LU	CN C	CN D	SOILS LD B	
0	0.	0.	0.	0.
111	0.	21.613	2.476	24.093
112	0.	3.088	0.	3.088
114	0.	0.	0.	0.
115	0.	0.	0.	0.
121	0.	0.	0.	0.
122	0.	0.	0.	0.
123	0.	0.	0.	0.
124	0.	0.	0.	0.
125	0.	0.	0.	0.
126	0.	0.	0.	0.
127	0.	0.	0.	0.
131	0.	0.	0.	0.
132	0.	0.	0.	0.
141	0.	0.	0.	0.
142	0.	0.	0.	0.
145	0.	0.	0.	0.
146	0.	0.	0.	0.
147	0.	0.	0.	0.
148	0.	0.	0.	0.
162	0.	0.	0.	0.
171	0.	0.	0.	0.
172	0.	0.	0.	0.
179	0.	0.	0.	0.
211	0.	0.	0.	0.
212	0.	0.	0.	0.
221	0.	0.	0.	0.
231	0.	0.	0.	0.
233	0.	0.	0.	0.
241	0.	0.	0.	0.
320	0.	0.	0.	0.
411	0.	0.	0.	0.
412	0.	0.	0.	0.
413	0.018	17.968	1.893	20.378
414	0.	0.	0.	0.
421	0.	0.	0.	0.
422	0.	0.	0.	0.
423	0.	0.	0.	0.
424	0.	0.	0.	0.
431	0.	0.	0.	0.
432	0.	0.	0.	0.
433	0.	5.550	0.	5.550
510	0.	0.	0.	0.
530	0.	2.470	0.	2.470
610	0.	0.	0.	0.
751	0.	0.	0.	0.
752	0.	0.	0.	0.
753	0.	0.	0.	0.
759	0.	0.	0.	0.
760	0.	1.235	0.	1.235
TOTALS	0.018	51.872	4.323	56.012

SLOPES = 5 . SUBBASIN = 22 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN PAGE 39



LANDUSE BY BUILD BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ONLY

PAGE 46

SLOPES = 0 . SUBBASIN = 31 .

CODED-LU	0	CMC	BUILD UT	
0	0.020	0.018	0.793	15.038
111	1.235	0.018	27.789	29.641
112	0.018	0.	1.853	2.470
114	0.	0.	0.	0.
115	0.	0.	0.	0.
121	0.	0.	0.	0.
122	0.018	0.	1.853	2.470
123	0.018	0.	2.470	3.088
124	0.	0.	0.018	0.018
125	0.	0.	1.853	1.853
126	0.018	0.	3.088	3.705
127	0.	0.	0.	0.
131	0.	0.	0.	0.
132	0.	0.	0.	0.
141	0.	0.	1.235	1.235
142	0.	0.	0.	0.
145	0.	0.	0.	0.
146	0.	0.	0.	0.
147	0.	0.	0.	0.
148	0.	0.	0.	0.
162	0.	0.	0.	0.
171	1.853	0.	1.853	3.705
172	0.	0.	0.	0.
179	0.	0.	0.	0.
211	0.	0.	0.	0.
212	0.	0.	0.	0.
221	0.	0.	0.	0.
231	0.	0.	0.	0.
233	0.	0.	0.	0.
241	0.	0.	0.	0.
320	0.	0.	0.	0.
411	0.	0.	0.	0.
412	0.	0.	0.	0.
413	0.	0.	0.	0.
414	0.	0.	0.	0.
421	0.	0.	0.	0.
422	0.	0.	0.	0.
423	0.	0.	0.	0.
424	0.	0.	0.	0.
431	0.	0.	0.	0.
432	0.	0.	0.	0.
433	0.	0.	0.	0.
510	0.	0.	0.	0.
536	0.	0.	0.	0.
610	0.	0.	0.	0.
751	0.	0.	0.	0.
752	0.	0.	0.	0.
753	0.	0.	0.	0.
759	0.	0.	0.	0.
766	0.	0.	0.	0.
TOTALS	13.596	1.235	49.462	69.223

SLOPES = 0 . SUBBASIN = 31 .

LANDUSE BY BUILD BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

PAGE 46

LANDUSE BY SOILS BY SLOPE ZONES FOR METAIRIE HUMP SUB-BASIN PAGE 41
MAJOR VALUES ONLY

SLOPES = 1 . SUBBASIN = 31 .

CODED-LU	CP C	LD B	BUILD SM C	UT	
0	0.	0.	0.	1.235	1,235
111	0.	0.	1.235	16.056	17,291
112	0.	0.	0.	0.	0.
114	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
122	0.	0.618	0.	12.968	13,586
123	2.470	0.	0.	0.	2,470
124	0.	0.	0.	0.	0.
125	0.	0.	0.	3.088	3,088
126	0.618	0.	0.793	0.	1,410
127	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.
142	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.
171	0.	0.	0.	0.445	445
172	0.	0.	3.048	0.	3,048
179	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.
235	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.
433	0.	0.	1.235	0.	1,235
510	0.	0.	0.	0.	0.
530	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.
760	0.	0.	0.	0.	0.
TOTALS	3,088	0,618	12,351	41,992	58,047

SLOPES = 1 . SUBBASIN = 31 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ARE:

SLOPES 0 2. SUBBASIN # 31.

		SOILS						
CODED-LU	U	CB C	CB D	CMC	LO B	BM C	UT	
0	0.	0	0.	0.	0.	0.	3.086	3.086
111	1.953	34.581	32.111	3.088	0.	19.761	260.153	357.567
112	0.	8.645	1.653	0.	0.	1.235	4.940	16.473
114	0.	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.	1.235
121	0.	1.235	0.	0.	0.	0.	0.	0.
122	0.	15.438	5.556	0.	0.010	21.613	69.402	92.629
123	0.	13.586	6.996	0.	0.	9.263	16.821	42.669
124	0.	0.	0.	0.	0.	4.323	0.618	3.940
125	0.	0.	4.323	0.	0.	0.	24.681	33.944
126	0.	22.231	6.793	0.	0.	35.199	13.586	77.898
127	0.	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.	0.	0.
141	0.	8.645	0.	0.	0.	5.558	0.618	14.821
142	0.	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.	0.
171	0.	11.733	7.410	0.	0.	18.526	24.683	61.763
172	0.	0.	0.	0.	0.	2.470	0.	2.470
179	0.	0.	0.	0.	0.	0.	0.618	0.618
211	0.	0.	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.	0.	0.
433	0.	0.	1.235	0.	0.	14.203	8.645	24.083
510	0.	0.	0.	0.	0.	0.	0.	0.
530	0.	0.618	0.618	0.	0.	8.026	0.	9.263
610	0.	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	5.558
760	0.	5.558	0.	0.	0.	0.	0.	
TOTALS	1,953	122,270	66,840	3,088	0,010	140,178	616,211	749,057

SLOPES 0 2. SUBBASIN # 31.

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN PAGE 43
MAJOR VALUES ARE:

SLOPES = 3 . SUBBASIN = 31 .

SOILS

CODED-LU	0	CB C	CB D	CMC	BH C	UT	
0	0.	0.	0.	0.	0.	1.853	1.853
111	0.618	120.417	113.007	0.618	19.761	227.249	481.669
112	0.	12.968	12.351	0.	2.470	11.115	38.904
114	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.
121	0.	0.618	0.	0.	0.	0.	0.618
122	0.	13.586	19.761	0.	21.613	21.613	76.573
123	0.	6.175	8.028	0.	8.028	11.115	33.346
124	0.	1.235	0.	0.	6.793	13.586	21.613
125	0.	2.470	7.410	0.	0.	14.821	24.701
126	0.	29.024	20.996	0.	29.641	24.701	104.362
127	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.618	0.618
132	0.	0.	0.	0.	0.	0.	0.
141	0.	9.263	0.618	0.	3.705	2.470	16.056
142	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.
171	0.	37.051	6.793	0.	18.526	24.083	86.454
172	0.	0.	0.	0.	1.235	0.	1.235
179	0.	4.940	3.705	0.	0.	0.	8.645
211	0.	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.	0.
323	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.
423	0.	1.853	1.853	0.	0.	0.	3.705
424	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.	0.
433	0.	5.550	3.088	0.	20.996	9.263	38.904
510	0.	0.	0.	0.	0.	0.	0.
530	0.	1.853	0.618	0.	0.618	0.	3.088
610	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.
760	0.	12.968	0.	0.	0.	0.	12.968
TOTALS	0.618	259.978	198.226	0.618	133.385	362.407	455.311

SLOPES = 3 . SUBBASIN = 31 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN PAGE 43

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ONLY

PAGE 44

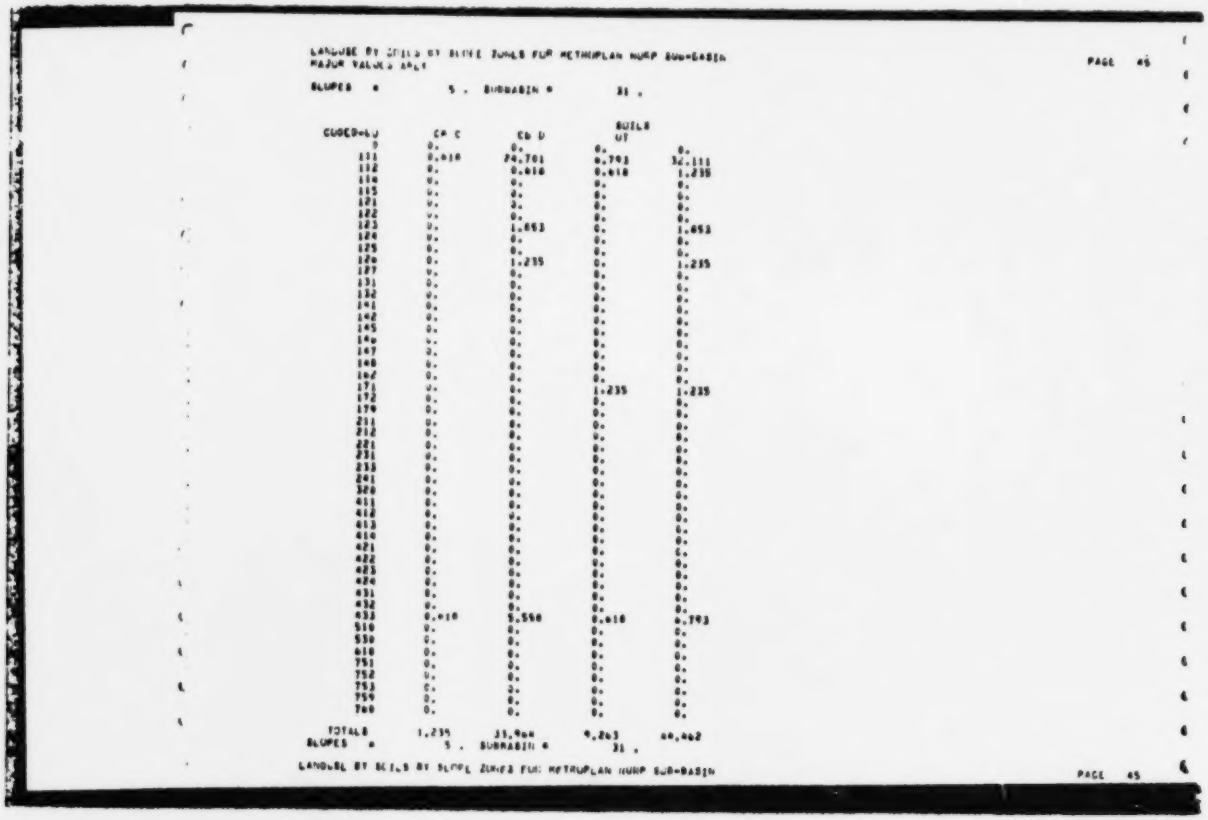
SLOPES = 4 . SUBBASIN = 31 .

	SOILS					
COBLD-LU	0	CB C	CB D	BH C	UT	
0	0.	0.	0.	0.	0.	0.
111	1.235	25.319	56.637	4.940	35.199	117.336
112	0.	4.323	6.175	0.	3.765	14.203
114	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.
122	0.	1.235	4.940	0.618	2.470	9.263
123	0.	1.853	3.088	1.235	1.853	8.028
124	0.	0.	0.	3.088	6.793	9.880
125	0.	0.618	12.966	0.	4.940	18.526
126	0.	4.940	14.203	4.940	3.088	27.171
127	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.
132	0.	0.	0.	0.	0.	0.
141	0.	1.853	0.	0.618	0.	2.470
142	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.
171	0.	6.175	1.853	0.618	10.498	19.143
172	0.	0.	0.	0.	0.	0.
179	0.	0.	3.088	0.618	0.618	4.323
211	0.	0.	0.	0.	0.	0.
212	0.	0.	0.	0.	0.	0.
221	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.
433	0.	3.088	4.323	11.115	1.235	19.761
510	0.	0.	0.	0.	0.	0.
530	0.	0.618	1.235	0.	0.	1.853
610	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.
760	0.	0.618	0.	0.	0.	0.618
TOTALS	1.235	50.637	102.509	27.789	70.398	252.568

SLOPES = 4 . SUBBASIN = 31 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

PAGE 44



LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN
MAJOR VALUES ONLY

PAGE 45

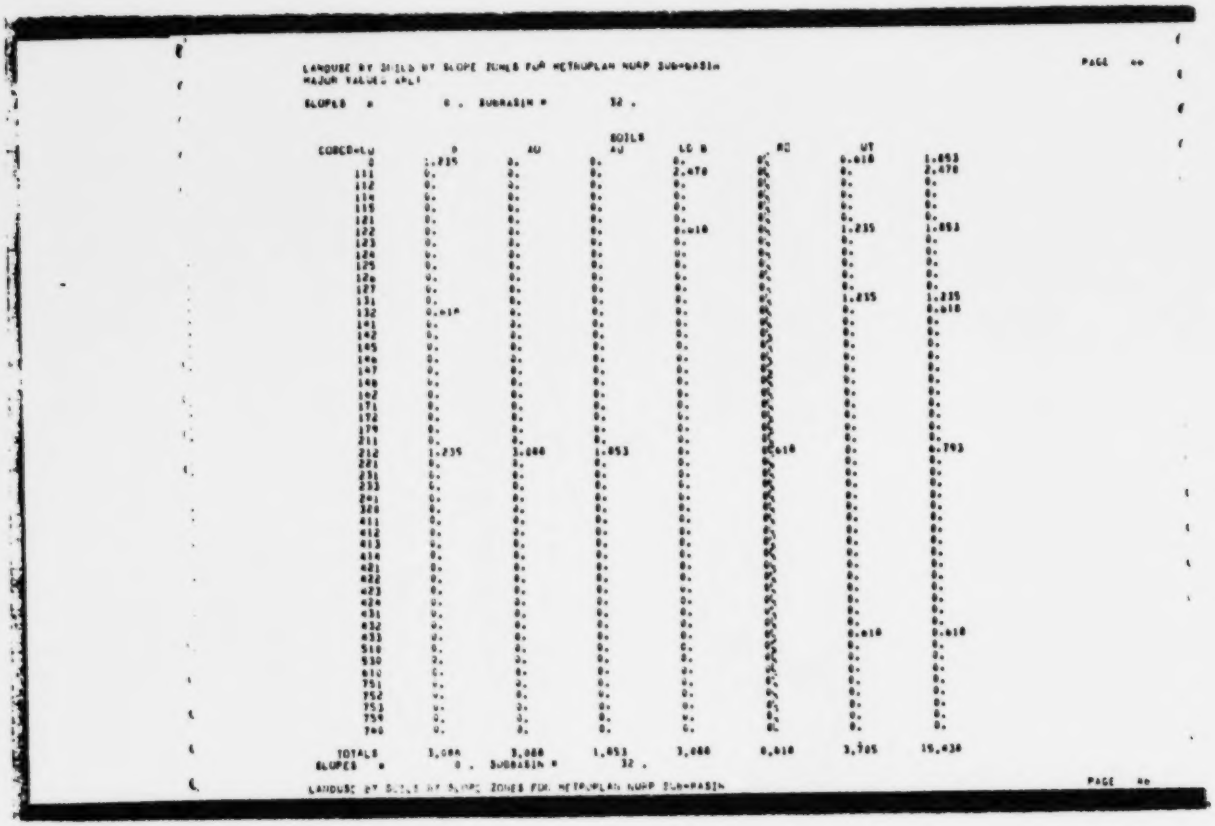
SLOPES = 5 . SUBBASIN = 31 .

CODED-LU	CA C	CB D	SOILS UT	
0	0.	0.	0.	0.
111	0.618	24.701	6.793	32.111
112	0.	0.618	0.618	1.235
114	0.	0.	0.	0.
115	0.	0.	0.	0.
121	0.	0.	0.	0.
122	0.	0.	0.	0.
123	0.	1.853	0.	1.853
124	0.	0.	0.	0.
125	0.	0.	0.	0.
126	0.	1.235	0.	1.235
127	0.	0.	0.	0.
131	0.	0.	0.	0.
132	0.	0.	0.	0.
141	0.	0.	0.	0.
142	0.	0.	0.	0.
145	0.	0.	0.	0.
146	0.	0.	0.	0.
147	0.	0.	0.	0.
148	0.	0.	0.	0.
162	0.	0.	0.	0.
171	0.	0.	1.235	1.235
172	0.	0.	0.	0.
179	0.	0.	0.	0.
211	0.	0.	0.	0.
212	0.	0.	0.	0.
221	0.	0.	0.	0.
231	0.	0.	0.	0.
233	0.	0.	0.	0.
241	0.	0.	0.	0.
320	0.	0.	0.	0.
411	0.	0.	0.	0.
412	0.	0.	0.	0.
413	0.	0.	0.	0.
414	0.	0.	0.	0.
421	0.	0.	0.	0.
422	0.	0.	0.	0.
423	0.	0.	0.	0.
424	0.	0.	0.	0.
431	0.	0.	0.	0.
432	0.	0.	0.	0.
433	0.618	5.558	0.618	6.793
510	0.	0.	0.	0.
530	0.	0.	0.	0.
610	0.	0.	0.	0.
751	0.	0.	0.	0.
752	0.	0.	0.	0.
753	0.	0.	0.	0.
759	0.	0.	0.	0.
760	0.	0.	0.	0.
TOTALS	1.235	33.964	9.263	44.462

SLOPES = 5 . SUBBASIN = 31 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUB-BASIN

PAGE 45



LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUBBASIN
MAJOR VALUES ONLY

PAGE 44

SLOPES = 0 . SUBBASIN = 32 .

CODED=LU	D	AU	SOILS AU	LC B	RC	UT	
0	1.735	0.	0.	0.	0.	0.618	1.853
111	0.	0.	0.	2.470	0.	0.	2.470
112	0.	0.	0.	0.	0.	0.	0.
114	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.618	0.	1.235	1.853
122	0.	0.	0.	0.	0.	0.	0.
123	0.	0.	0.	0.	0.	0.	0.
124	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.	0.	0.
127	0.	0.	0.	0.	0.	1.235	1.235
131	0.	0.	0.	0.	0.	0.	0.618
132	0.618	0.	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.	0.	0.
142	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.	0.	0.
172	0.	0.	0.	0.	0.	0.	0.
174	0.	0.	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.	0.	0.
212	1.235	3.088	1.853	0.	0.618	0.	0.793
221	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.
253	0.	0.	0.	0.	0.	0.	0.
261	0.	0.	0.	0.	0.	0.	0.
310	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.618	0.618
433	0.	0.	0.	0.	0.	0.	0.
510	0.	0.	0.	0.	0.	0.	0.
530	0.	0.	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.
754	0.	0.	0.	0.	0.	0.	0.
760	0.	0.	0.	0.	0.	0.	0.
TOTALS	3,088	3,088	1,853	3,088	0,618	3,705	15,430

SLOPES = 0 . SUBBASIN = 32 .

LANDUSE BY SOILS BY SLOPE ZONES FOR METROPLAN NURP SUBBASIN

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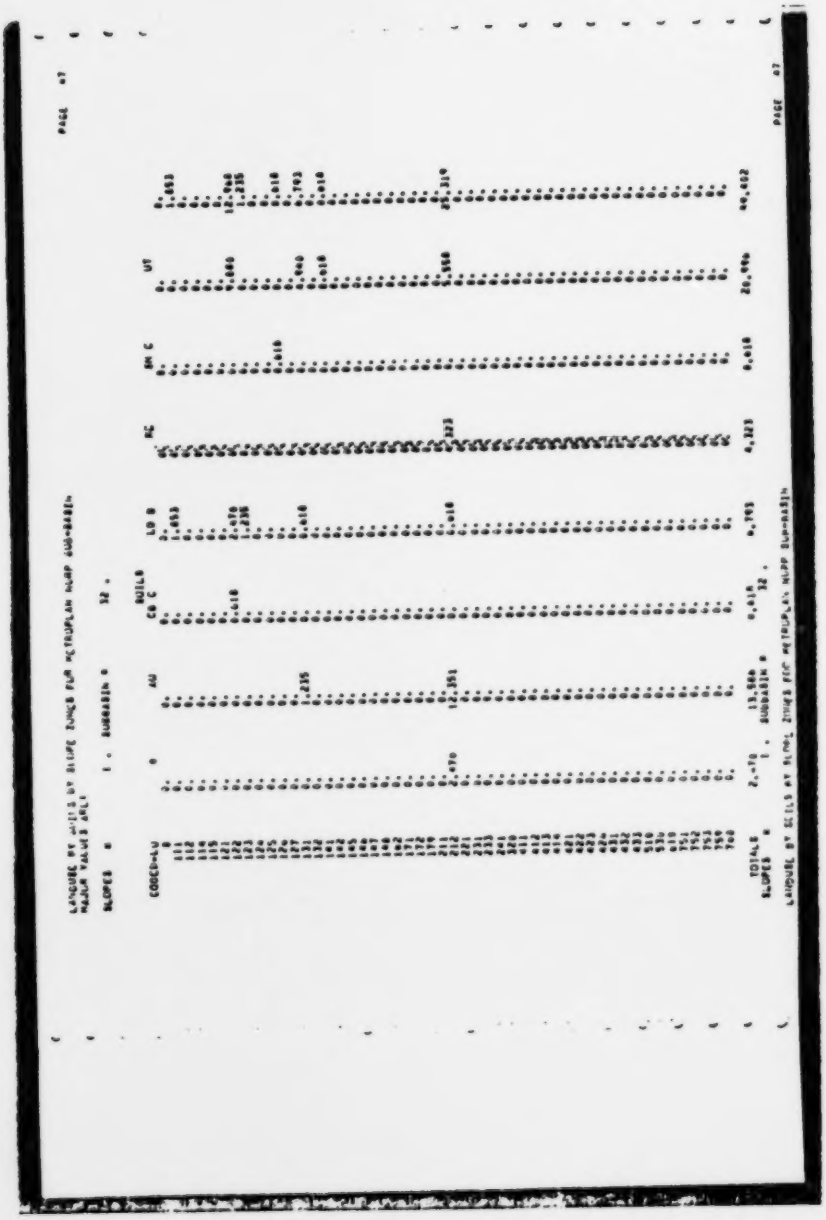

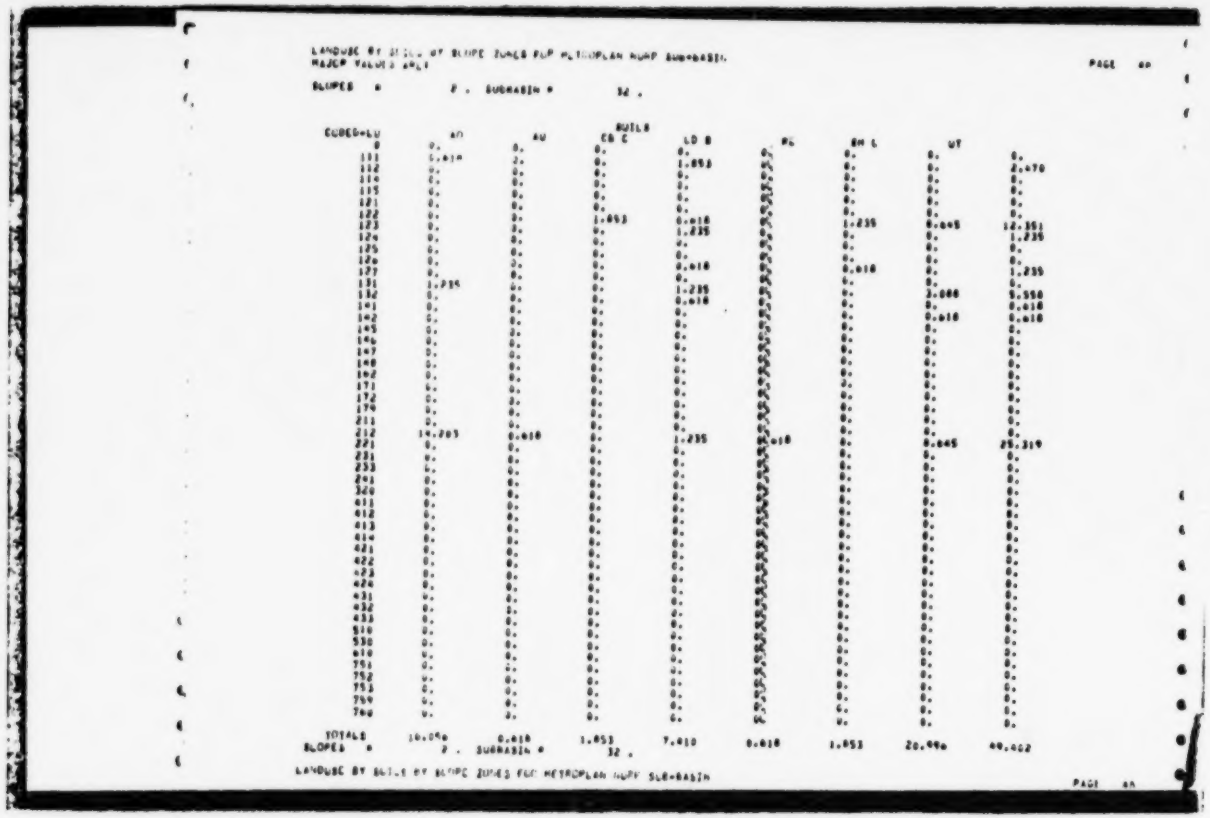

LANDUSE BY ACRES BY SLOPE ZONES FOR METROPLAN HUFF SUBBASIN.
MAJOR VALUES ONLY

PAGE 40

SLOPES = 0 - 2 . SUBBASIN = 32 .

CODES=LU	AD	AU	BUILD CB C	LD B	PL	RM L	UT	
0	0.	0.	0.	0.	0.	0.	0.	0.
111	0.010	0.	0.	1.053	0.	0.	0.	2.470
112	0.	0.	0.	0.	0.	0.	0.	0.
114	0.	0.	0.	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.	0.	0.	0.
122	0.	0.	0.	0.	0.	0.	0.	0.
123	0.	0.	1.053	0.010	0.	1.235	0.645	12.351
124	0.	0.	0.	1.235	0.	0.	0.	1.235
125	0.	0.	0.	0.	0.	0.	0.	0.
126	0.	0.	0.	0.010	0.	0.010	0.	1.235
127	0.	0.	0.	0.	0.	0.	0.	0.
131	0.235	0.	0.	1.235	0.	0.	2.006	0.550
132	0.	0.	0.	0.010	0.	0.	0.010	0.010
141	0.	0.	0.	0.	0.	0.	0.	0.
142	0.	0.	0.	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.	0.	0.	0.
172	0.	0.	0.	0.	0.	0.	0.	0.
176	0.	0.	0.	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.	0.	0.	0.
212	14.203	0.010	0.	1.235	0.010	0.	0.645	25.319
221	0.	0.	0.	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	0.	0.	0.
426	0.	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.	0.	0.	0.
433	0.	0.	0.	0.	0.	0.	0.	0.
510	0.	0.	0.	0.	0.	0.	0.	0.
530	0.	0.	0.	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.	0.	0.	0.
760	0.	0.	0.	0.	0.	0.	0.	0.
TOTALS	14.448	0.010	1.053	7.410	0.010	1.853	20.996	49.402

SLOPES = 0 - 2 . SUBBASIN = 32 .

LANDUSE BY ACRES BY SLOPE ZONES FOR METROPLAN HUFF SUBBASIN

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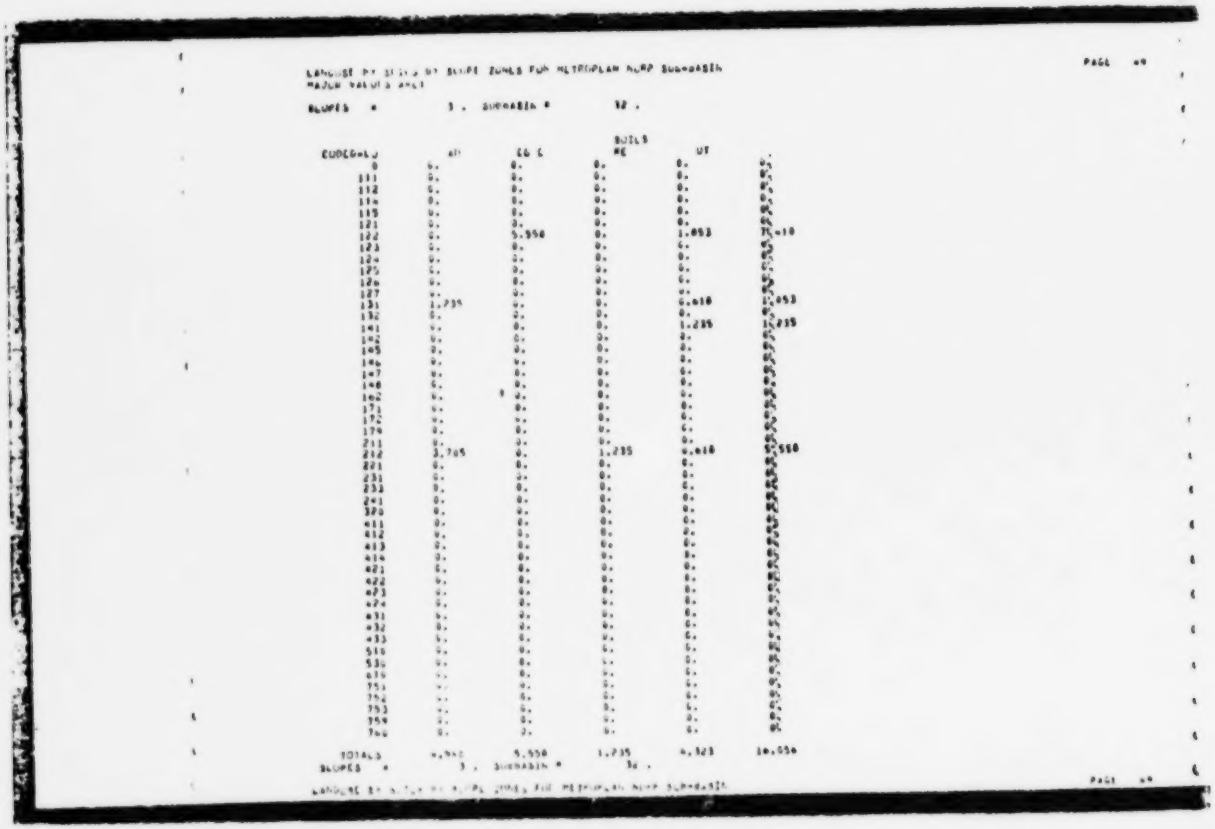

LANDUSE BY SLOPE BY SLOPE ZONES FOR METROPLAN NURP SUBBASIN PAGE 49
MAJOR VALUES ONLY

SLOPES = 3 . SUBBASIN = 32 .

CODEGRLU	AD	CG C	BUILS RE	UT	
0	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.
112	0.	0.	0.	0.	0.
114	0.	0.	0.	0.	0.
115	0.	0.	0.	0.	0.
121	0.	0.	0.	0.	0.
122	0.	5.550	0.	1.053	7[illegible].410
123	0.	0.	0.	0.	0.
124	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.
127	0.	0.	0.	0.	0.
131	1.235	0.	0.	0.410	1.053
132	0.	0.	0.	0.	0.
141	0.	0.	0.	1.235	1.235
142	0.	0.	0.	0.	0.
145	0.	0.	0.	0.	0.
146	0.	0.	0.	0.	0.
147	0.	0.	0.	0.	0.
148	0.	0.	0.	0.	0.
162	0.	0.	0.	0.	0.
171	0.	0.	0.	0.	0.
172	0.	0.	0.	0.	0.
179	0.	0.	0.	0.	0.
211	0.	0.	0.	0.	0.
212	3.705	0.	1.235	0.410	5.550
221	0.	0.	0.	0.	0.
231	0.	0.	0.	0.	0.
233	0.	0.	0.	0.	0.
241	0.	0.	0.	0.	0.
320	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.
412	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.
414	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.
432	0.	0.	0.	0.	0.
433	0.	0.	0.	0.	0.
510	0.	0.	0.	0.	0.
535	0.	0.	0.	0.	0.
619	0.	0.	0.	0.	0.
751	0.	0.	0.	0.	0.
752	0.	0.	0.	0.	0.
753	0.	0.	0.	0.	0.
759	0.	0.	0.	0.	0.
760	0.	0.	0.	0.	0.
TOTALS	4.940	5.550	1.235	4.323	16.050

SLOPES = 3 . SUBBASIN = 32 .

LANDUSE BY SLOPE BY SLOPE ZONES FOR METROPLAN NURP SUBBASIN PAGE 49